

MECHANICAL SCHEDULES

INDOOR UNITS - SERVED FROM ODU-1

DESIGNATION	IDU 1.1	IDU 1.2	IDU 1.3	IDU 1.4	IDU 2.1	IDU 2.2	IDU 2.3	IDU 3.1	IDU 3.2	IDU 3.3	IDU 4.1	IDU 4.2	IDU 4.3	IDU 4.4	IDU 5.1	IDU 5.2	IDU 5.3
BLOWER																	
SUPPLY ATR (CFM)	742	390	300	477	459	424	388	477	1024	1024	1024	1434	265	597	265	393	597
EXT. S.P. (IN. W.C.)	-	-	0.31	0.31	-	0.31	-	0.31	0.39	0.39	0.39	0.55	0.31	0.31	0.31	0.31	0.31
MIN. O.S.A. (CFM)	70	40	120	50	0	0	150	320	110	850	180	250	110	130	140	30	150
VOLTS/PHASE	208/1	208/1	208/1	208/1	208/1	208/1	208/1	208/1	208/1	208/1	208/1	208/1	208/1	208/1	208/1	208/1	208/1
MCA / MOCP	.56	.2	.92	.92	.2	.92	.2	.92	2.3	2.3	2.3	.92	.92	.92	.92	.92	.92
DRIVE	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
SENSIBLE (MBH)	30.7	8.1	8.1	16.2	20.5	13.0	16.2	16.2	30.7	30.7	30.7	35.6	6.4	20.5	6.4	10.4	20.5
TOTAL (MBH)	33.6	8.9	8.9	17.4	22.5	14.3	17.7	17.7	33.6	33.6	33.6	39.0	7.0	22.5	7.0	11.4	22.5
EADB/EAWB (°F)	80/64	80/64	80/64	80/64	80/64	80/64	80/64	80/64	80/64	80/64	80/64	80/64	80/64	80/64	80/64	80/64	80/64
HEATING																	
TOT CAP. (MBH) @25°F	40.6	10.9	10.9	21.5	27.3	17.1	21.5	21.5	40.6	40.6	40.6	43.8	8.5	27.3	8.5	13.6	27.3
KW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STAGES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FILTER																	
TYPE	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY
P.D. (IN. W.C.)	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0
EFFICIENCY	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8
MANUFACTURER	L6	L6	L6	L6	L6	L6	L6	L6	L6	L6	L6	L6	L6	L6	L6	L6	L6
TYPE	CEILING CASSETTE	CEILING CASSETTE	CONCEALED DUCTED	CONCEALED DUCTED	WALL MOUNTED	WALL MOUNTED	CEILING CASSETTE	CONCEALED DUCTED	CONCEALED DUCTED	CONCEALED DUCTED	CONCEALED DUCTED	CONCEALED DUCTED	CONCEALED DUCTED	CONCEALED DUCTED	CONCEALED DUCTED	CONCEALED DUCTED	CONCEALED DUCTED
MODEL NUMBER	ARNU363TN2C	ARNU093TPAA	ARNU093BH42	ARNU183BH42	ARNU2435L2	ARNU1535L2	ARNU183TNAA	ARNU183BH42	ARNU363BH42	ARNU363BH42	ARNU363BH42	ARNU423BH42	ARNU073BH42	ARNU243BH42	ARNU073BH42	ARNU1235L2	ARNU243BH42
LOCATION																	
CONNECTED ODU / BRANCH CONTROLLER	ODU 1 HR 1	ODU 1 HR 1	ODU 1 HR 1	ODU 1 HR 1	ODU 1 HR 2	ODU 1 HR 2	ODU 1 HR 2	ODU 1 HR 3	ODU 1 HR 3	ODU 1 HR 3	ODU 1 HR 4	ODU 1 HR 4	ODU 1 HR 4	ODU 1 HR 4	ODU 1 HR 5	ODU 1 HR 5	ODU 1 HR 5
OPER. WT. (LBS)	52	32	59	59	32	59	35	59	84	84	84	117	59	59	59	59	59
ACCESSORIES	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

1. PROVIDE FACTORY APPROVED CONDENSATE PUMP

INDOOR UNITS - SERVED FROM ODU-2

DESIGNATION	IDU 6.1	IDU 6.2	IDU 6.3	IDU 6.4	IDU 7.1	IDU 7.2	IDU 7.3	IDU 7.4	IDU 8.1	IDU 8.2	IDU 8.3	IDU 8.4	IDU 9.1	IDU 9.2	IDU 9.3	IDU 10.1	IDU 10.2	IDU 10.3
BLOWER																		
SUPPLY ATR (CFM)	477	300	353	353	265	265	353	265	424	353	390	390	353	300	597	1582	597	353
EXT. S.P. (IN. W.C.)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	-	-	0.31	0.31	0.31	0.55	0.31	0.31
MIN. O.S.A. (CFM)	130	20	190	120	20	20	40	80	180	20	40	40	20	20	40	370	50	20
VOLTS/PHASE	208/1	208/1	208/1	208/1	208/1	208/1	208/1	208/1	208/1	208/1	208/1	208/1	208/1	208/1	208/1	208/1	208/1	208/1
MCA / MOCP	.92	.92	.92	.92	.92	.92	.92	.92	.92	.92	.2	.2	.92	.92	.92	2.3	.92	.92
DRIVE	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
SENSIBLE (MBH)	16.2	8.1	10.4	10.4	6.4	6.4	10.4	6.4	13.0	10.4	8.1	8.1	10.4	8.1	20.5	40.8	20.5	10.4
TOTAL (MBH)	17.7	8.9	11.4	11.4	7.0	7.0	11.4	7.0	14.3	11.4	8.9	8.9	11.4	8.9	22.5	44.6	22.5	11.4
EADB/EAWB (°F)	80/64	80/64	80/64	80/64	80/64	80/64	80/64	80/64	80/64	80/64	80/64	80/64	80/64	80/64	80/64	80/64	80/64	80/64
HEATING																		
TOT CAP. (MBH) @25°F	21.5	10.9	13.6	13.6	8.5	8.5	13.6	8.5	17.1	13.6	10.9	10.9	13.6	10.9	27.3	51.2	27.3	13.6
KW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STAGES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FILTER																		
TYPE	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY
P.D. (IN. W.C.)	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
EFFICIENCY	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8
MANUFACTURER	L6	L6	L6	L6	L6	L6	L6	L6	L6	L6	L6	L6	L6	L6	L6	L6	L6	L6
TYPE	CONCEALED DUCTED	CONCEALED DUCTED	CONCEALED DUCTED	CONCEALED DUCTED	CONCEALED DUCTED	CONCEALED DUCTED	CONCEALED DUCTED	CONCEALED DUCTED	CONCEALED DUCTED	CONCEALED DUCTED	CEILING CASSETTE	CEILING CASSETTE	CONCEALED DUCTED	CONCEALED DUCTED	CONCEALED DUCTED	CONCEALED DUCTED	CONCEALED DUCTED	CONCEALED DUCTED
MODEL NUMBER	ARNU183BH42	ARNU093BH42	ARNU123BH42	ARNU123BH42	ARNU073BH42	ARNU073BH42	ARNU123BH42	ARNU073BH42	ARNU153BH42	ARNU123BH42	ARNU093TPAA	ARNU093TPAA	ARNU123BH42	ARNU093BH42	ARNU243BH42	ARNU483BH42	ARNU243BH42	ARNU123BH42
LOCATION																		
CONNECTED ODU / BRANCH CONTROLLER	ODU 2 HR 6	ODU 2 HR 6	ODU 2 HR 6	ODU 2 HR 6	ODU 2 HR 7	ODU 2 HR 7	ODU 2 HR 7	ODU 2 HR 7	ODU 2 HR 8	ODU 2 HR 8	ODU 2 HR 8	ODU 2 HR 8	ODU 2 HR 9	ODU 2 HR 9	ODU 2 HR 9	ODU 2 HR 10	ODU 2 HR 10	ODU 2 HR 10
OPER. WT. (LBS)	59	59	68	59	59	59	59	59	59	59	32	32	59	59	59	117	59	192
ACCESSORIES	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

1. PROVIDE FACTORY APPROVED CONDENSATE PUMP

CHANGE DUE TO BEAM CONFLICT.

GRILLE SCHEDULE

MARK	DUTY	DESCRIPTION
(A)	CEILING SUPPLY	TITUS MODEL TDC (TYPE 3) STEEL DIFFUSER FOR DROP-IN TILE CEILING, 16"x18" STANDARD CORE, ROUND NECK, WHITE FINISH.
(B)	FILTER RETURN	TITUS MODEL 350FLF1 (TYPE 3) ALUMINUM RETURN GRILLE FOR DROP-IN TILE CEILING, 35 DEG FIXED DEFLECTION, 20"x20"x1" FILTER FRAME, HINGED TOP, SQUARE NECK, WHITE FINISH.
(C)	CEILING EXHAUST	TITUS MODEL 350FL (TYPE 3) ALUMINUM RETURN GRILLE FOR DROP-IN TILE CEILING, 35 DEG FIXED DEFLECTION, HINGED TOP, SQUARE NECK, WHITE FINISH.
(D)	CEILING SUPPLY	TITUS MODEL TDC (TYPE 1) STEEL DIFFUSER FOR SURFACE MOUNTING, SQUARE OR RECTANGULAR NECK, WHITE FINISH.
(E)	FILTER RETURN	TITUS MODEL 350FLF1 (TYPE 1) ALUMINUM RETURN GRILLE FOR SURFACE MOUNTING, 35 DEG FIXED DEFLECTION, 20"x20"x1" FILTER FRAME, HINGED TOP, SQUARE NECK, WHITE FINISH.
(F)	CEILING EXHAUST	TITUS MODEL 350FL (TYPE 1) ALUMINUM RETURN GRILLE FOR SURFACE MOUNTING, 35 DEG FIXED DEFLECTION, HINGED TOP, SQUARE NECK, WHITE FINISH.
(G)	LINEAR SUPPLY	TITUS MODEL ML-37 LINEAR SLOT DIFFUSERS, WITH 1/2" SLOT SPACING, 2-SLOT, BORDER TYPE 2B, PRIMER FINISH.

ENERGY RECOVERY VENTILATORS

DESIGNATION	ERV 1	ERV 2
MCA/MOCP (AMPS)	23.2/25	1
VOLTS / PHASE	208/3	208/3
FLOW RATE (CFM)	2700	1700
TOTAL SP. (IN. W.C.)	1.00	1.00
HP / BRAKE HP	5/2.9	2/1.3
R.P.M.	1,764	1,594
SUMMER		
EADB/EAWB (°F)	105/70	105/70
LADB/LAWB (°F)	84.7/64.4	84.7/64.4
WINTER		
EADB/EAWB (°F)	2.00	2.00
LADB/LAWB (°F)	57/40.6	57.5/41.2
FLOW RATE (CFM)	0	0
TOTAL SP. (IN. W.C.)	1.00	1.00
HP / BRAKE HP	5/2.9	2/1.3
R.P.M.	1,764	1,594
SUMMER		
EADB/EAWB (°F)	75.00	75.00
RELATIVE HUMIDITY	50	50
WINTER		
EADB/EAWB (°F)	70.00	70.00
RELATIVE HUMIDITY	35	35
RECOVERY CAP. (TONS)	4.30	2.70
RECOVERY CAP. (MBH)	51.6	32.8
MANUFACTURER	RENEWAIR	RENEWAIR
TYPE	PACKAGED ERV	PACKAGED ERV
MODEL NUMBER	HE3XRT	HE2XRT
SERVES	ODU-1	ODU-2
OPER. WT. (LBS)	726	488
ACCESSORIES	1, 2, 3	1, 2, 3

- 1 - SUPPLY AND EXHAUST FAN TO BE PROVIDED WITH FACTORY MOUNTED VFD.
- 2 - PROVIDE FACTORY ROOF CURB WITH VERTICLE FA AND RA CONFIG.
- 3 - PROVIDE WITH MERV-8 FILTERS

OUTDOOR UNITS

DESIGNATION	ODU 1	ODU 2
VOLTS/PHASE	208/3	208/3
MCA/MOCP	23.2/35 + 24/40 + 31.6/40	23.2/35 + 23.2/35 + 31.6/40
EER (AT ARI)		
COP @ 47 DEG F		
COOLING CAP (MBH)	360.0	336.0
HEATING CAP (MBH)	405.0	378.0
AMBIENT (°F)	95	95
MANUFACTURER	L6	L6
TYPE	HEAT PUMP/ HEAT RECOVERY	HEAT PUMP/ HEAT RECOVERY
MODEL NUMBER	ARU8360DTE4	ARU8360DTE4
LOCATION	ROOF	ROOF
OPER. WT. (LBS)	1708	1708
ACCESSORIES	1	1

1. PROVIDE FACTORY TWINING KIT

HEAT RECOVERY BOXES

DESIGNATION	HR-1	HR-2	HR-3	HR-4	HR-5	HR-6	HR-7	HR-8	HR-9	HR-10
VOLTS/PHASE	208 / 1	208 / 1	208 / 1	208 / 1	208 / 1	208 / 1	208 / 1	208 / 1	208 / 1	208 / 1
MCA / MFA	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
MANUFACTURER	L6	L6	L6	L6	L6	L6	L6	L6	L6	L6
MODEL NUMBER	PRHR041A	PRHR041A	PRHR041A	PRHR041A	PRHR041A	PRHR041A	PRHR041A	PRHR041A	PRHR041A	PRHR041A
OUTDOOR UNIT	ODU-1	ODU-1	ODU-1	ODU-1	ODU-1	ODU-2	ODU-2	ODU-2	ODU-2	ODU-2
OPER. WT. (LBS)	49	49	49	49	49	49	49	49	49	49
ACCESSORIES	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3

1. PROVIDE INSULATED BALL VALVES ON ALL PORTS AND DRAIN CONNECTION PIPE.
2. PROVIDE RS/RL FITTINGS AND REDUCERS AS REQUIRED PER MANUFACTURER'S SIZING RECOMMENDATIONS.
3. PROVIDE FACTORY APPROVED CONDENSATE PUMP

SHEET INDEX

M001 MECHANICAL SCHEDULES, LEGEND, NOTES, AND SHEET INDEX

M261 6TH FLOOR SELECTIVE DEMOLITION PLAN

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M271 7TH FLOOR PIPING PARTIAL PLAN

M272 7TH FLOOR PIPING PARTIAL PLAN

M273 7TH FLOOR PIPING PARTIAL PLAN

M371 7TH FLOOR PARTIAL FLOOR PLAN

M372 7TH FLOOR PARTIAL FLOOR PLAN

M373 7TH FLOOR PARTIAL FLOOR PLAN

M500 ROOF PLAN

M600 DETAILS

M601 DETAILS

M700 T24 DOCUMENTATION

M701 T24 DOCUMENTATION

GENERAL NOTES

- COORDINATION OF WORK: LAYOUT OF MATERIALS, EQUIPMENT AND SYSTEMS IS GENERALLY DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED. SOME WORK MAY BE SHOWN OFFSET FOR CLARITY.
- THE ACTUAL LOCATION OF ALL MATERIALS, PIPING, DUCTWORK, FIXTURES, EQUIPMENT, SUPPORTS, ETC., SHALL BE CAREFULLY PLANNED PRIOR TO INSTALLATION OF ANY WORK TO AVOID ALL INTERFERENCES WITH EACH OTHER, OR WITH STRUCTURAL, ELECTRICAL, ARCHITECTURAL OR OTHER ELEMENTS.
- VERIFY THE PROPER VOLTAGE AND PHASE OF ALL EQUIPMENT WITH THE ELECTRICAL PLANS. ALL CONFLICTS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER PRIOR TO THE INSTALLATION OF ANY WORK OR THE ORDERING OF ANY EQUIPMENT.
- PROVIDE ALL DUCT TRANSITION PIECES AND FITTINGS REQUIRED TO ACCOMMODATE MECHANICAL EQUIPMENT CONNECTIONS, STRUCTURE, ARCHITECTURAL ELEMENTS, AND CHANGES IN DUCT SIZES.
- ALL DUCTWORK SHALL BE CONSTRUCTED, ERECTED AND TESTED IN ACCORDANCE WITH THE STANDARDS ADOPTED BY SMACNA AND CHAPTER 6 OF THE 2010 CHC.
- ALL DUCTWORK AND PIPING SHALL BE INSULATED CONSISTENT WITH THE REQUIREMENTS OF 2010 CHC. INSULATION MATERIALS SHALL MEET THE CALIFORNIA QUALITY STANDARD PER SECTION 105, 123, AND 124 OF THE 2010 CALIFORNIA ENERGY CODE.
- ALL DUCT SIZES SHOWN ARE NET INSIDE DIMENSIONS.
- DUCTWORK SHALL BE SHEET METAL CONSTRUCTED IN COMPLETE CONFORMANCE WITH CHC LATEST EDITION, CHAPTER 6 AND THE LATEST SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
- ALL DRAWINGS AND SPECIFICATIONS ARE TO BE CONSIDERED PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS PRIOR

one eighth inch = one foot
one quarter inch = one foot
three eighths inch = one foot
one half inch = one foot
three quarters inch = one foot
one inch = one foot
one and one half inches = one foot
two inches = one foot
three inches = one foot

10:22:32 AM 5-01-14 6TH.dwg JONATHAN SCHLUNDT

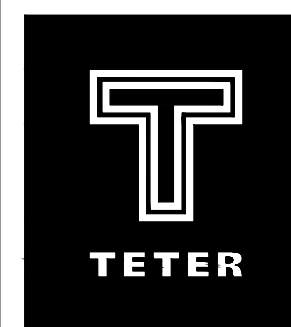
CONSTRUCTION DOCUMENT SUBMITTAL (100% CD REVIEW)	4-30-14
CONSTRUCTION DOCUMENT SUBMITTAL (100%)	4-16-14
CONSTRUCTION DOCUMENT SUBMITTAL (80%)	3-19-14
DESIGN DEVELOPMENT SUBMITTAL (30%)	2-14-14
SCHEMATIC DESIGN SUBMITTAL	12-4-13
Revisions:	Date

CONSULTANTS:

SELECTIVE DEMOLITION PARTIAL FLOOR PLAN - 6TH FLOOR




ARCHITECT/ENGINEERS:



TETER, LLP
7535 N. PALM AVE. 201 | FRESNO, CA 93711 | 559.437.8887
125 S. BRIDGE ST. 150 | VISALIA, CA 93291 | 559.625.5244
ARCHITECTS ENGINEERS CONNECTED

Drawing Title	SELECTIVE DEMO PARTIAL PLAN - 6TH
Approved: Project Director	

Project Title RENOVATE 7TH FLOOR BUILDING 1			Project Number 570-15-202		Office of Construction and Facilities Management
			Building Number 1		
Location FRESNO, CA			Drawing Number M261		
Date 4-30-14	Checked	Drawn	Dwg. 24 of 52		 Department of Veterans Affairs

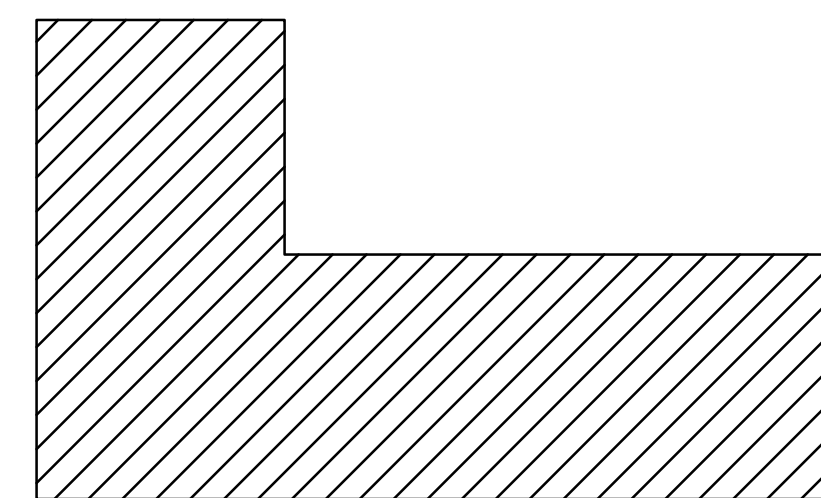
KEYNOTES

- PROVIDE CAP ON (E) ZONE PIPING SUPPLY SERVING 7TH FLOOR AS INDICATED. CAP TO BE LOCATED AT BRANCH ISOLATION VALVE. COORDINATE SHUTDOWN WITH OWNER IF ISOLATION VALVE IS NOT PRESENT. CONTRACTOR TO PROTECT (E) SURFACES AND FINISHES FROM DAMAGE.
- (E) RISER/DROP TO 5TH FLOOR. NO WORK.
- NEW ZONE SUPPLY PIPE ROUTED TO NEW RISER LOCATION. CONTRACTOR TO FIELD COORDINATE EXACT LOCATION WITH (E) AND/OR (N) WALL LAYOUT.
- (E) ZONE SUPPLY RISER LOCATION TO BE ACCOMMODATED BY NEW ARCHITECTURAL LAYOUT ON 7TH FLOOR. NO WORK REQUIRED.

GENERAL NOTES

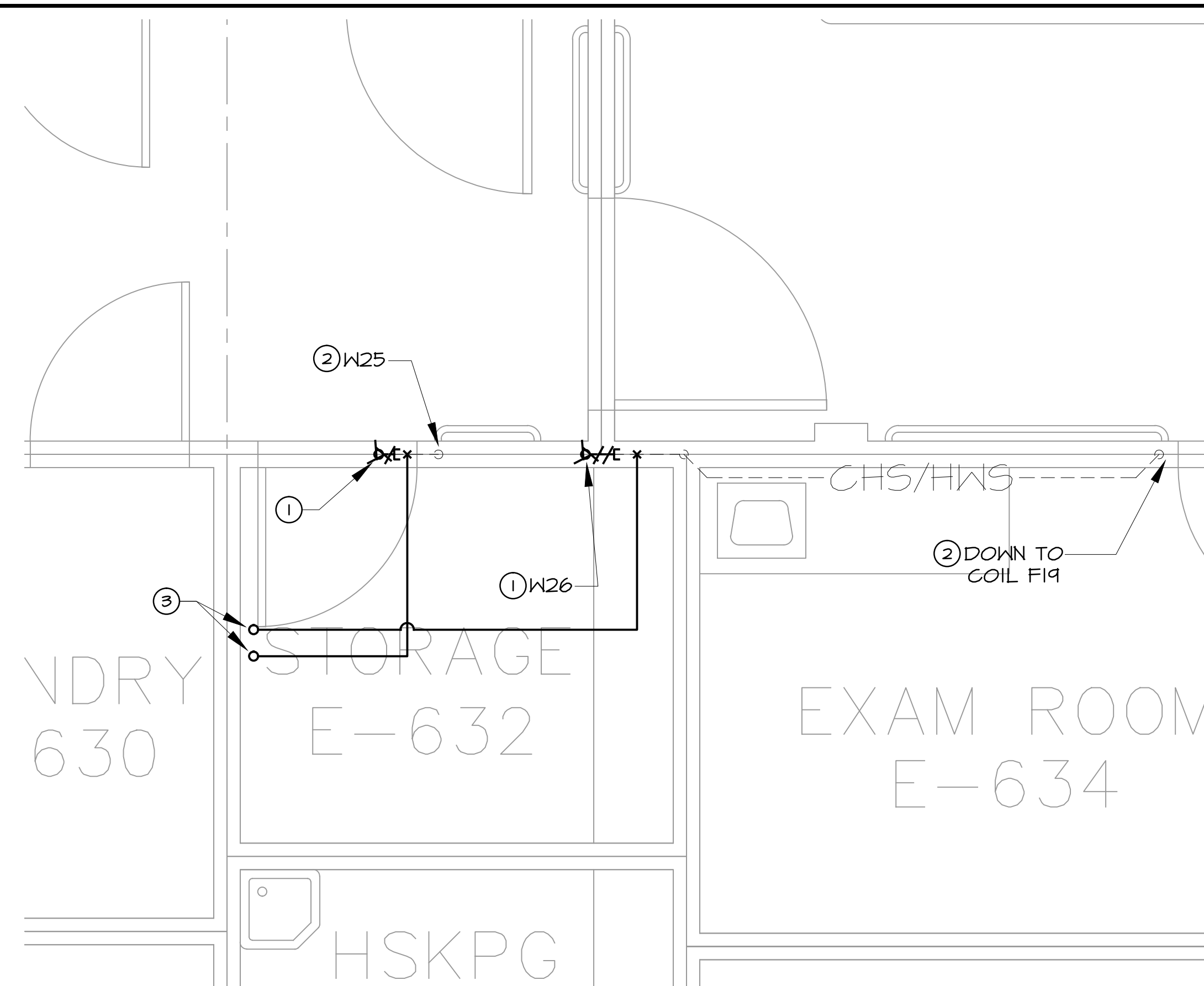
- ALL SHUTDOWNS OF EXISTING SYSTEMS TO BE COORDINATED WITH OWNER TO LIMIT OPERATIONAL IMPACT. CONTRACTOR SHALL FIELD VERIFY ALL SYSTEMS AND THEIR POTENTIAL SHUT DOWN IMPACT PRIOR TO REMOVAL.
- PIPES ROUTED WITHIN WALLS AND CONCEALED SPACES HAVING INSULATION HAVE BEEN IDENTIFIED TO CONTAIN ASBESTOS. CONTRACTOR TO COORDINATE WITH ABATEMENT SURVEY FOR POTENTIAL IMPACTS.
- CONTRACTOR SHALL VERIFY ALL PIPE SERVICES PRIOR TO REMOVAL. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO ARCHITECTS AND OWNERS ATTENTION.
- CONTRACTOR TO PERFORM ALL REMOVAL AND RE-ROUTING WORK ON 6TH FLOOR THRU (E) ACCESS PANELS. CONTRACTOR TO PROVIDE CEILING ACCESS PANELS AS NECESSARY TO COMPLETE WORK IF ADEQUATE ACCESS IS NOT AVAILABLE.
- EXISTING DUCT AND PIPING ARE SHOWN IN THEIR APPROXIMATE LOCATIONS ONLY. INFORMATION OF (E) LOCATIONS IS BASED UPON EXISTING DRAWINGS AND OWNERS BEST KNOWLEDGE. EXISTING INFORMATION SHOWN MAY NOT BE TAKEN AS COMPREHENSIVE, AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE EXISTING INFORMATION SHOWN.

KEY PLAN

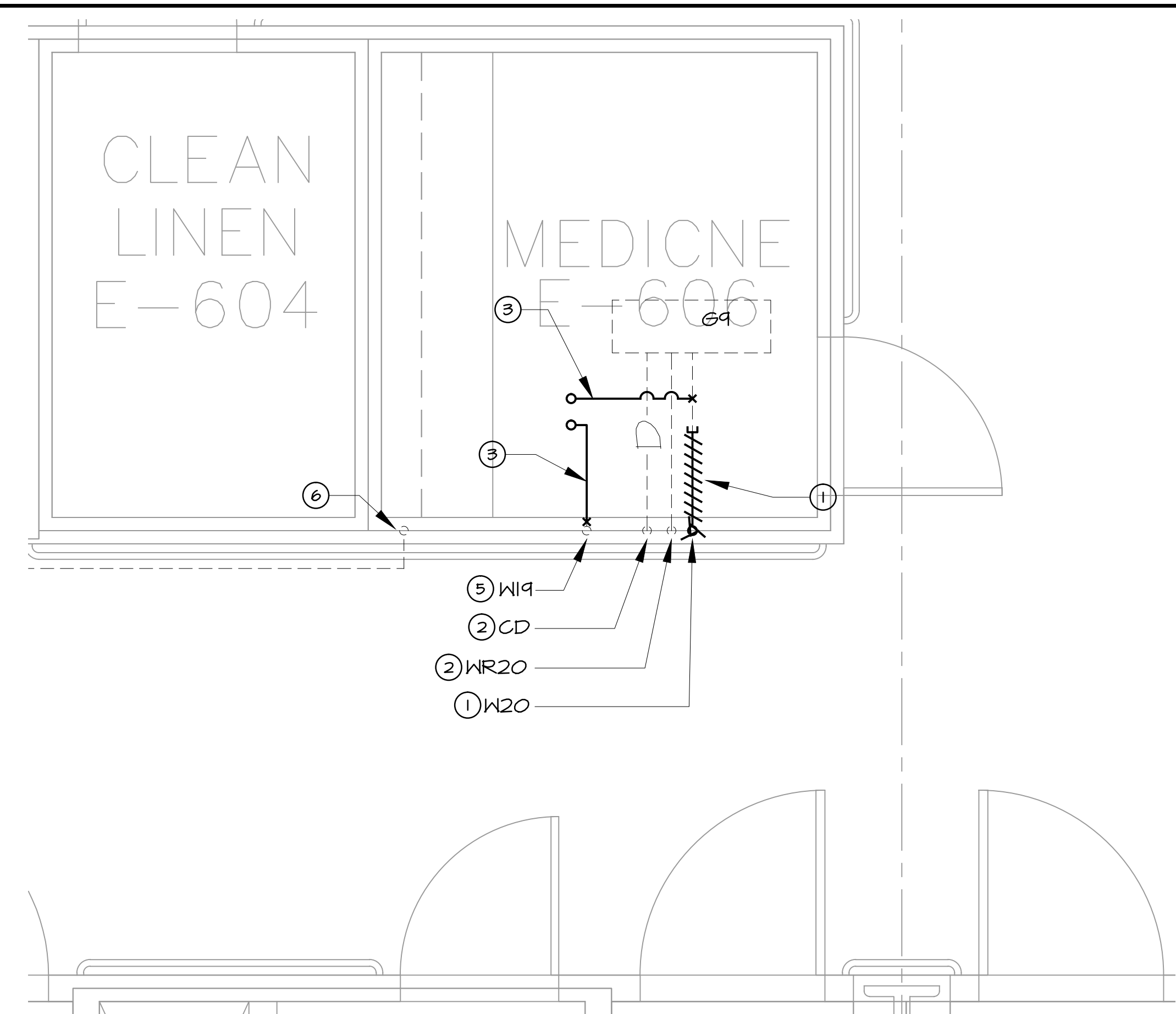


SCALE: 1/8" = 1'-0"

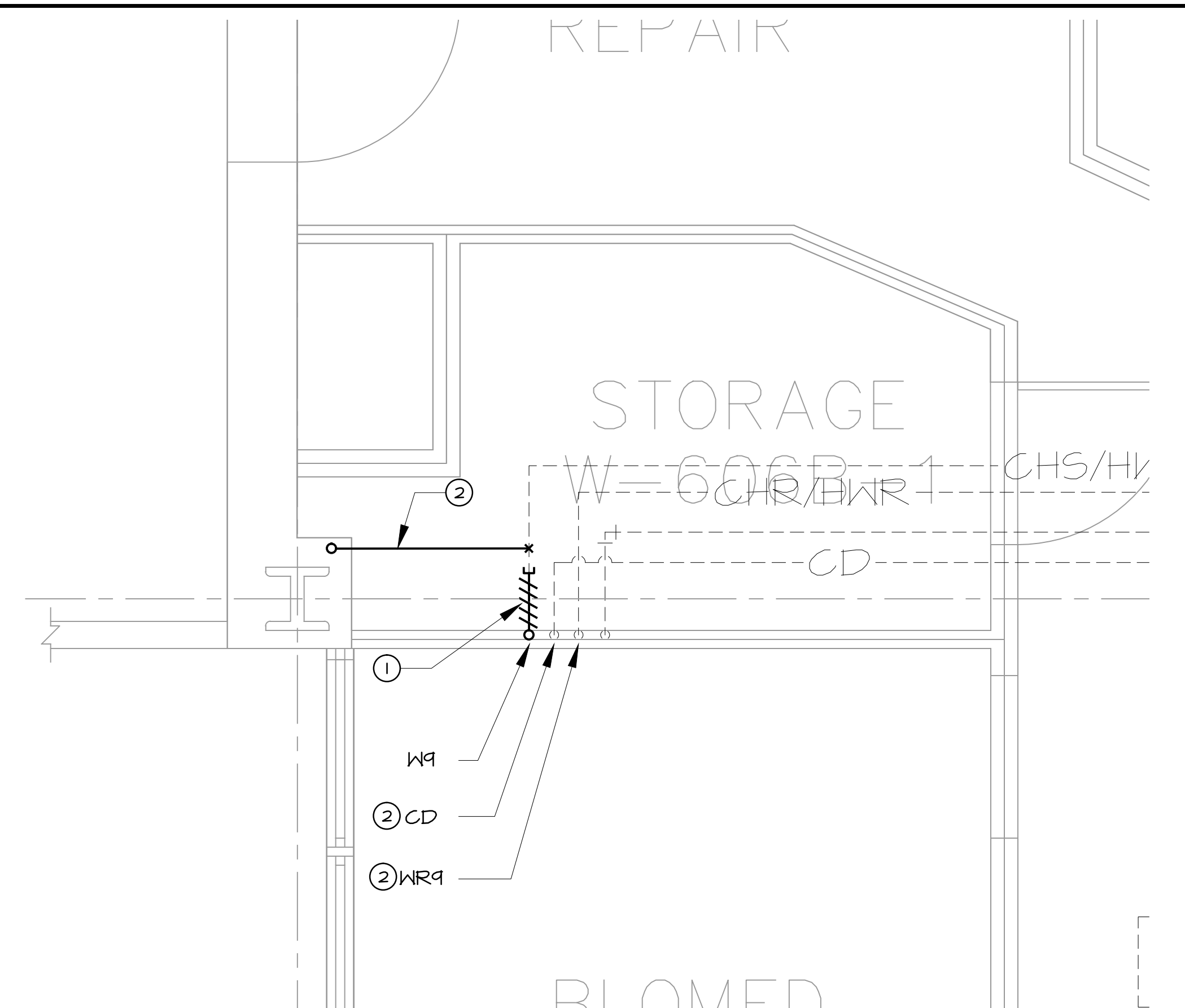
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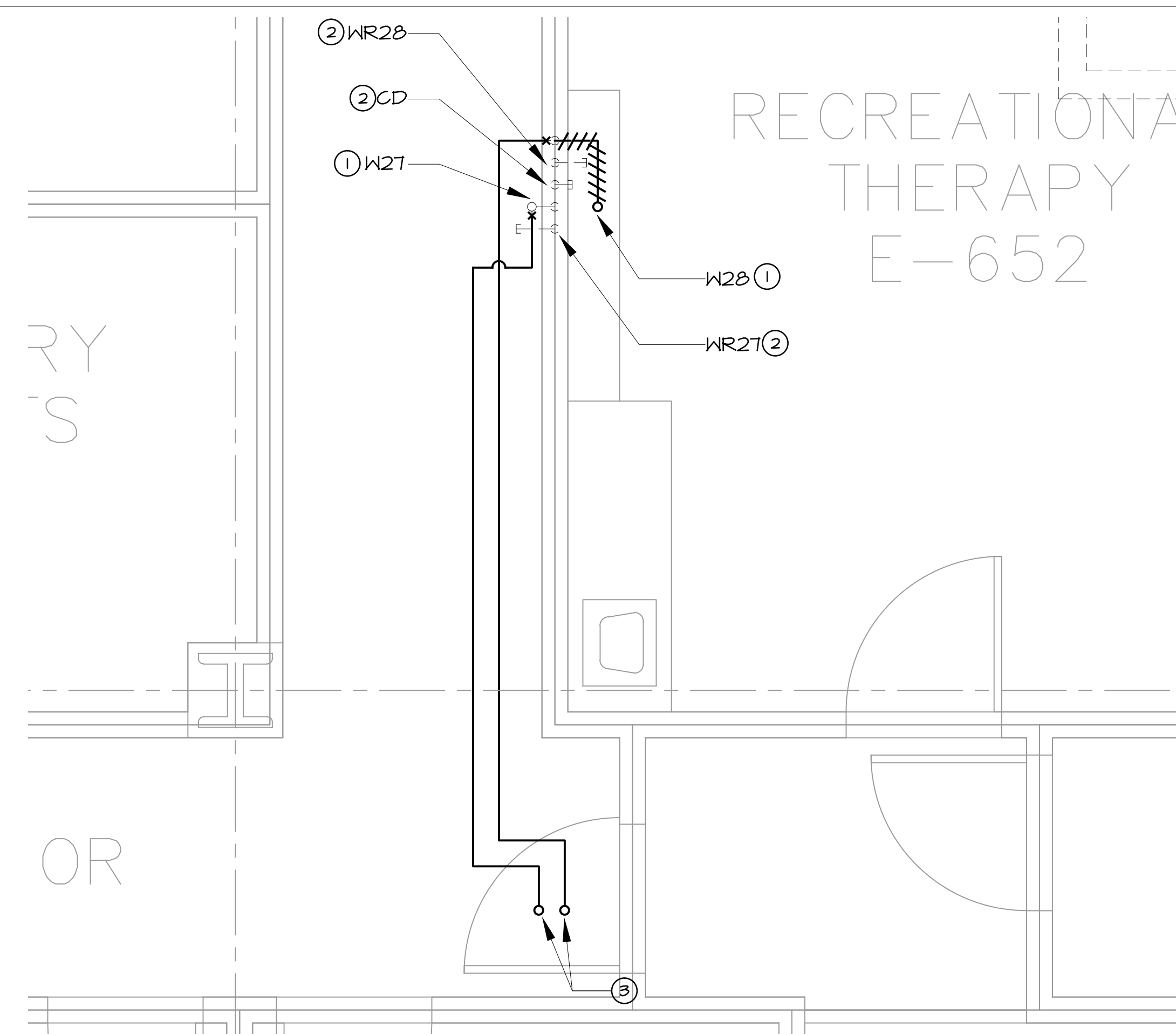
SELECTIVE 6TH FLOOR DEMO PARTIAL FLOOR PLAN



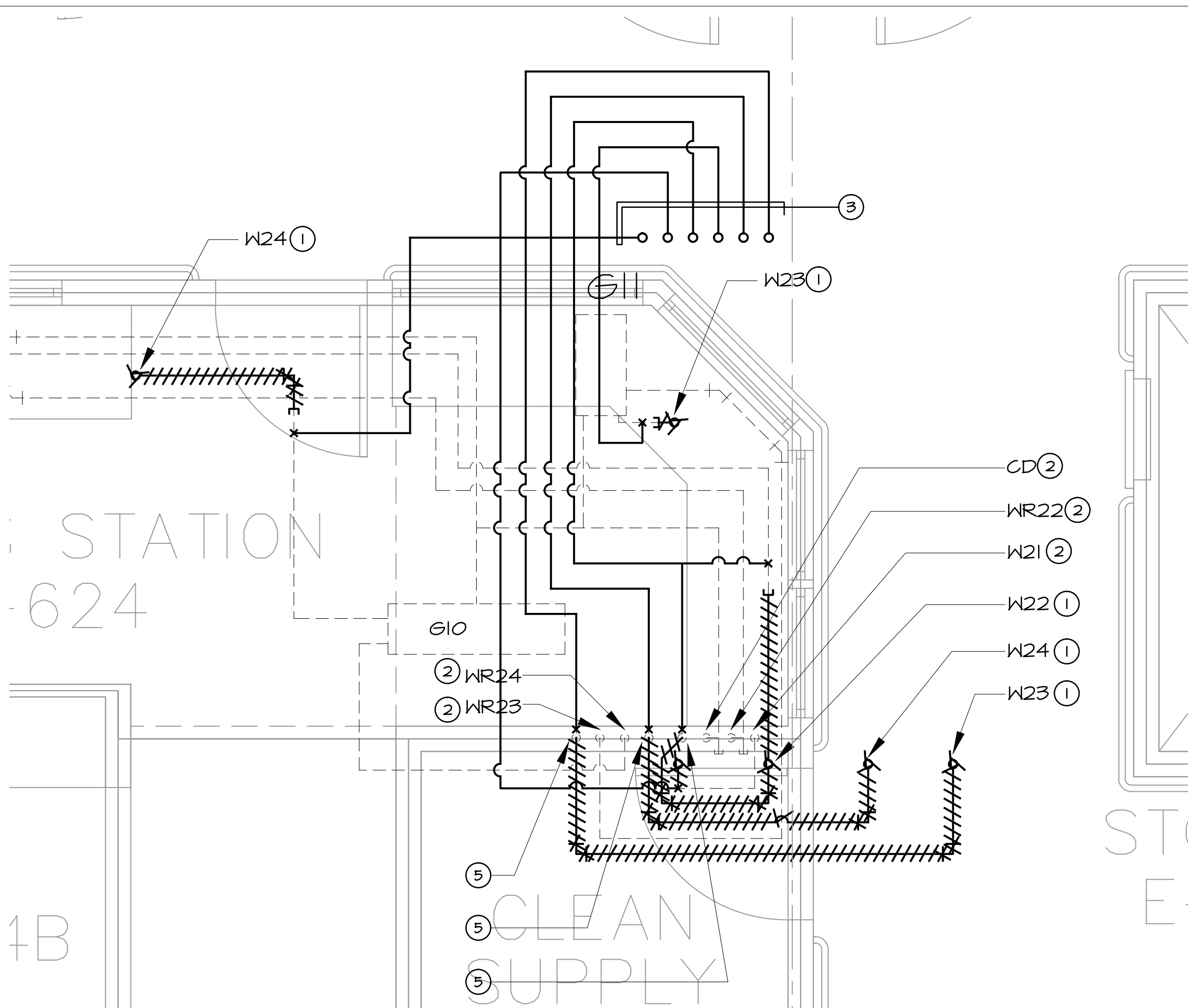
SELECTIVE 6TH FLOOR DEMO PARTIAL FLOOR PLAN



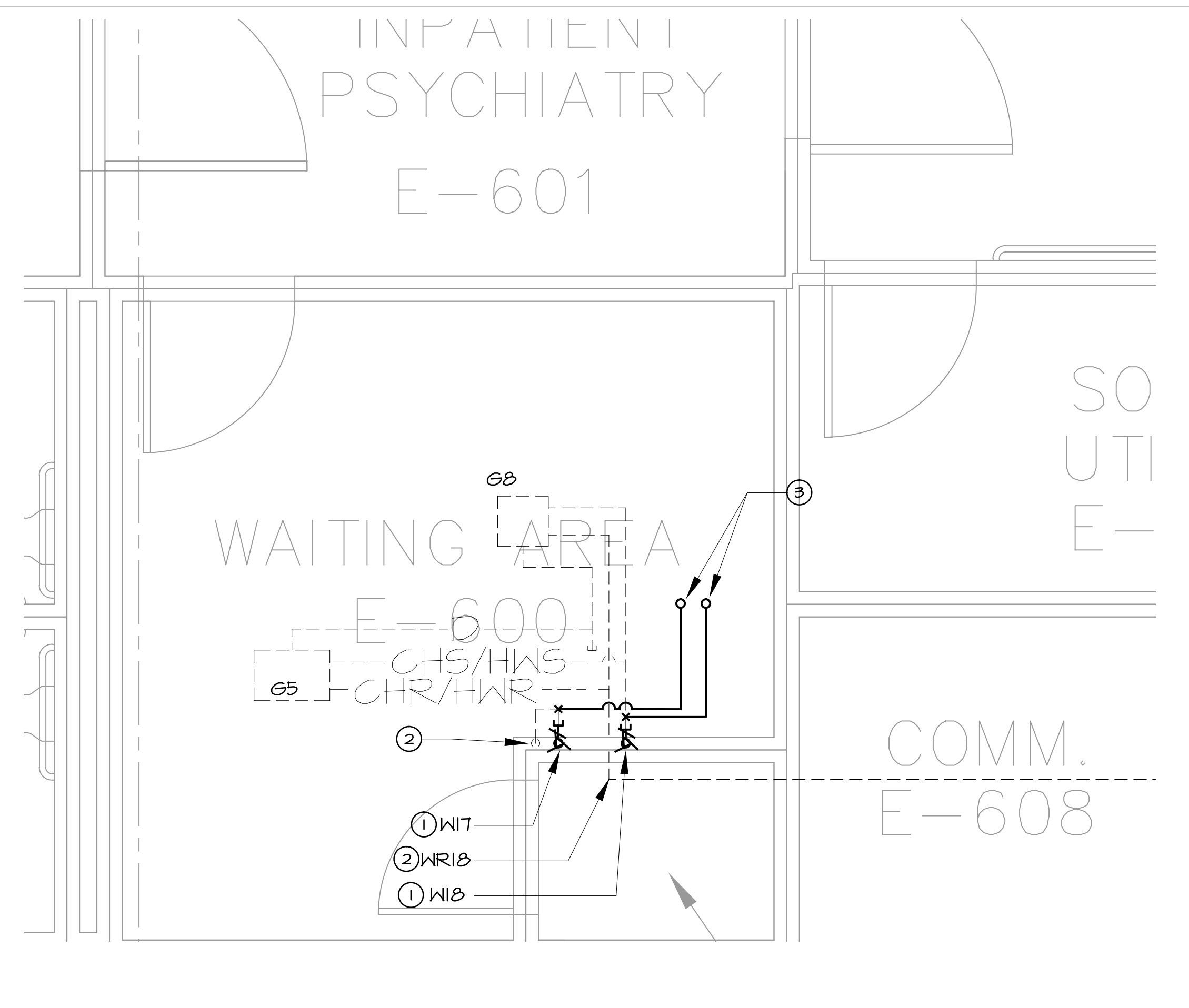
SELECTIVE 6TH FLOOR DEMO PARTIAL FLOOR PLAN



SELECTIVE 6TH FLOOR DEMO PARTIAL FLOOR PLAN



SELECTIVE 6TH FLOOR DEMO PARTIAL FLOOR PLAN



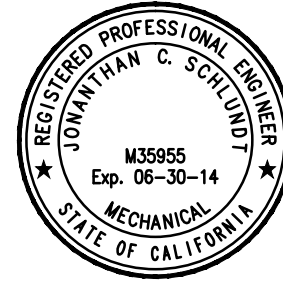
SELECTIVE 6TH FLOOR DEMO PARTIAL FLOOR PLAN

KEYNOTES

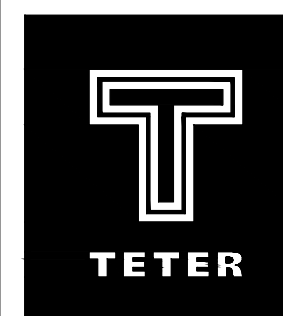
- ① PROVIDE CAP ON (E) ZONE SUPPLY SERVING 7TH FLOOR AS INDICATED. CAP TO BE LOCATED AT BRANCH ISOLATION VALVE. COORDINATE SHUTDOWN WITH OWNER IF ISOLATION VALVE IS NOT PRESENT. CONTRACTOR TO PROTECT (E) SURFACES AND FINISHES FROM DAMAGE.
- ② (E) RISER/DROP TO 5TH FLOOR. NO WORK.
- ③ NEW ZONE SUPPLY PIPE ROUTED TO NEW RISER LOCATION. CONTRACTOR TO FIELD COORDINATE EXACT LOCATION WITH (E) AND/OR (N) WALL LAYOUT ON 7TH FLOOR.
- ④ NOT USED
- ⑤ PROVIDE CAP ON (E) ZONE SUPPLY RISER SERVING 7TH FLOOR. CAP TO BE LOCATED ABOVE PARTIAL HEIGHT WALL IN CEILING VOID. (E) RISER/DROP TO 5TH FLOOR BEYOND PARTIAL HEIGHT WALL IN CEILING VOID. COORDINATE SHUTDOWN WITH OWNER IF ISOLATION VALVE IS NOT PRESENT. CONTRACTOR TO PROTECT (E) SURFACES AND FINISHES FROM DAMAGE.
- ⑥ FIELD VERIFY RISER SYSTEM. IF RISER IS ZONE SUPPLY THEN COORDINATE WITH ARCHITECT FOR NEW RISER LOCATION AND RE-ROUTING OPTIONS. IF NOT, THEN CAP BACK TO MAIN. COORDINATE SHUTDOWN WITH OWNER IF ISOLATION VALVE IS NOT PRESENT.

		<div>CONSULTANTS:</div>
CONSTRUCTION DOCUMENT SUBMITTAL (100% CD REVIEW)	4-30-14	
CONSTRUCTION DOCUMENT SUBMITTAL (100%)	4-16-14	
CONSTRUCTION DOCUMENT SUBMITTAL (REIR)	3-19-14	
DESIGN DEVELOPMENT SUBMITTAL (35%)	2-14-14	
SCHEMATIC DESIGN SUBMITTAL	12-4-13	
Revisions:	Date	

CONSULTANTS:



ARCHITECT/ENGINEERS:



TETER, LLP

7535 N. PALM AVE. 201 | FRESNO, CA 93711 | 559.437.0887
125 S. BRIDGE ST. 150 | VISALIA, CA 93291 | 559.625.5241

ARCHITECTS ENGINEERS CONNECTED

	Drawing Title
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SELECTIVE DEMO PARTIAL PLAN - 6TH

Approved: Project Director

Project Title

Project Title
RENOVATE 7TH FLOOR BUILDING 1

Location	FRESNO, CA
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☒ Checked☐ Drawn

Project Number

510-13-202

Building Number	1
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Drawing Number

M262

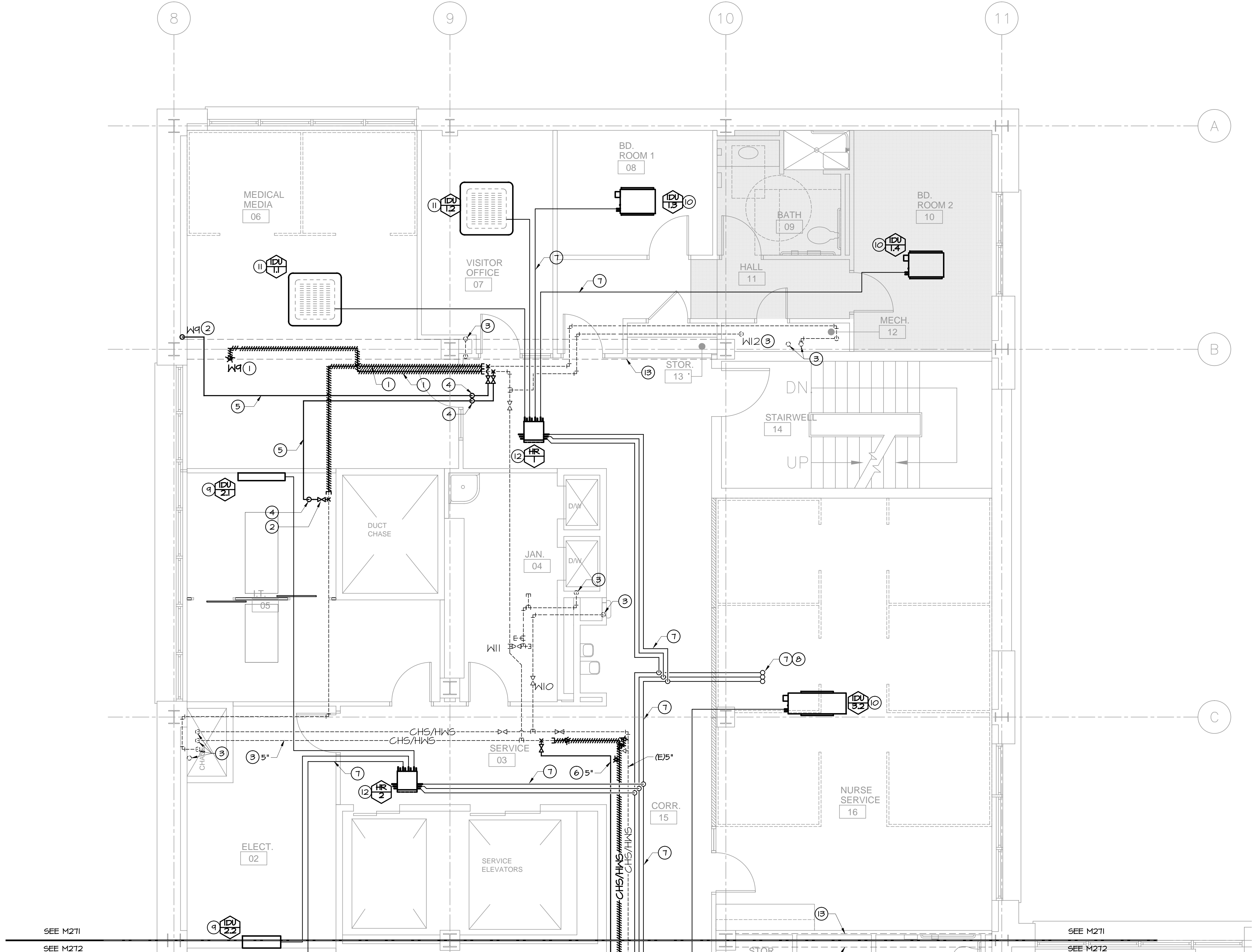
Page 25 of 52

Office of
Construction
and Facilities
Management

Department of
Veterans Affairs

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3-91-19-11-3-00 VA - 7th Floor TUG-Project Drawings Sheets M271 7TH FLOOR PIPING PARTIAL PLAN.dwg 5-D1-14 10:22:47 AM jonathan.schlundt



7TH FLOOR PIPING PARTIAL FLOOR PLAN

SCALE: 1/4" = 1'-0"

1

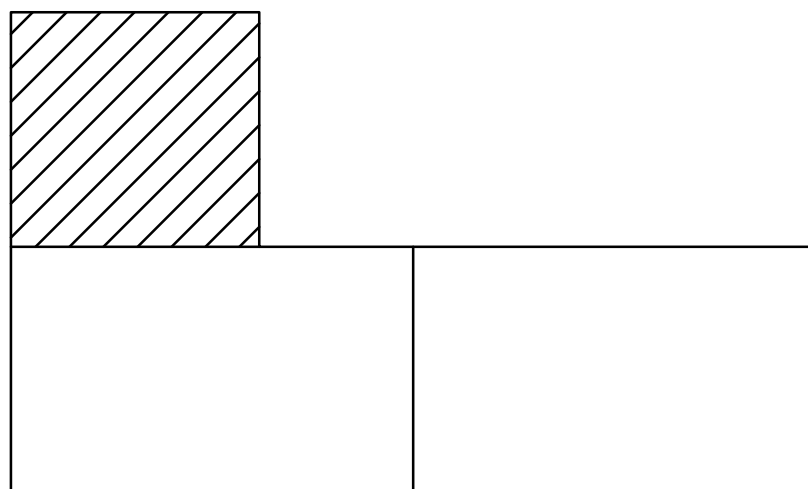
KEYNOTES

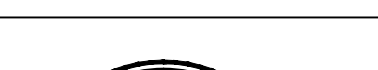


- REMOVE (E) PIPE AS INDICATED AND PROVIDE CAP ON (E) ZONE PIPING SUPPLY SERVING BELOW FLOORS. CAP TO BE LOCATED NEAR POC AS INDICATED. COORDINATE SHUTDOWN WITH OWNER IF ISOLATION VALVE IS NOT PRESENT.
- NEW ZONE SUPPLY PIPE ROUTED TO NEW RISER LOCATION. PROVIDE S.O.V. AT BRANCH. CONTRACTOR TO FIELD COORDINATE EXACT LOCATION OF RISER WITH (E) AND/OR (N) WALL LAYOUT.
- (E) ZONE SUPPLY RISER LOCATION TO BE ACCOMMODATED BY NEW ARCHITECTURAL LAYOUT ON 7TH FLOOR. NO WORK REQUIRED.
- ROUTE LINE TO HIGHER ELEVATION TO ACCOMMODATE NEW CEILING LAYOUT. COORDINATE WITH ARCHITECTURAL PLANS FOR CONDITIONS.
- MATCH SIZE OF (N) PIPE TO SIZE OF (E) PIPE AT P.O.C.
- (N) PIPE WITH SIZE INCREASED AS DIRECTED BY THE V.A.
- REFER TO DETAIL 10/M600 FOR PIPE SIZING
- REFRIGERANT PIPING UP TO ROOF TO CDU-1
- IDU MOUNTED TO WALL WITH MOUNTING BRACKET PER DETAIL 12/M601. REFER TO DETAIL 10/M601 FOR UNIT CLEARANCES.
- SUSPENDED FC MOUNTED PER DETAIL 14/M601.
- INDOOR SUSPENDED CEILING CASSETTE MOUNTED PER DETAIL 13/M601.
- SUSPENDED HEAT RECOVERY BOX MOUNTED ABOVE CEILING PER DETAIL 15/M601.
- OUTLINE OF CRITICAL LON BEAM WITH LIMITED SPACE DUE TO CEILING HEIGHT. CONTRACTOR TO COORDINATE WITH (E) BEAM LOCATIONS AND (N) CONDITIONS.

GENERAL NOTES

- ALL SHUTDOWNS OF EXISTING SYSTEMS TO BE COORDINATED WITH OWNER TO LIMIT OPERATIONAL IMPACT. CONTRACTOR SHALL FIELD VERIFY ALL SYSTEMS AND THEIR POTENTIAL SHUT DOWN IMPACT PRIOR TO REMOVAL.
- PIPES ROUTED WITHIN WALLS AND CONCEALED SPACED HAVING INSULATION HAVE BEEN IDENTIFIED TO CONTAIN ASBESTOS. CONTRACTOR TO COORDINATE WITH ABATEMENT SURVEY FOR POTENTIAL IMPACTS.
- CONTRACTOR SHALL VERIFY ALL PIPE SERVICES PRIOR TO REMOVAL. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO ARCHITECTS AND OWNERS ATTENTION.
- EXISTING DUCT AND PIPING ARE SHOWN IN THEIR APPROXIMATE LOCATIONS ONLY. INFORMATION OF (E) LOCATIONS IS BASED UPON EXISTING DRAWINGS AND OWNERS BEST KNOWLEDGE. EXISTING INFORMATION SHOWN MAY NOT BE TAKEN AS COMPREHENSIVE, AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE EXISTING INFORMATION SHOWN.

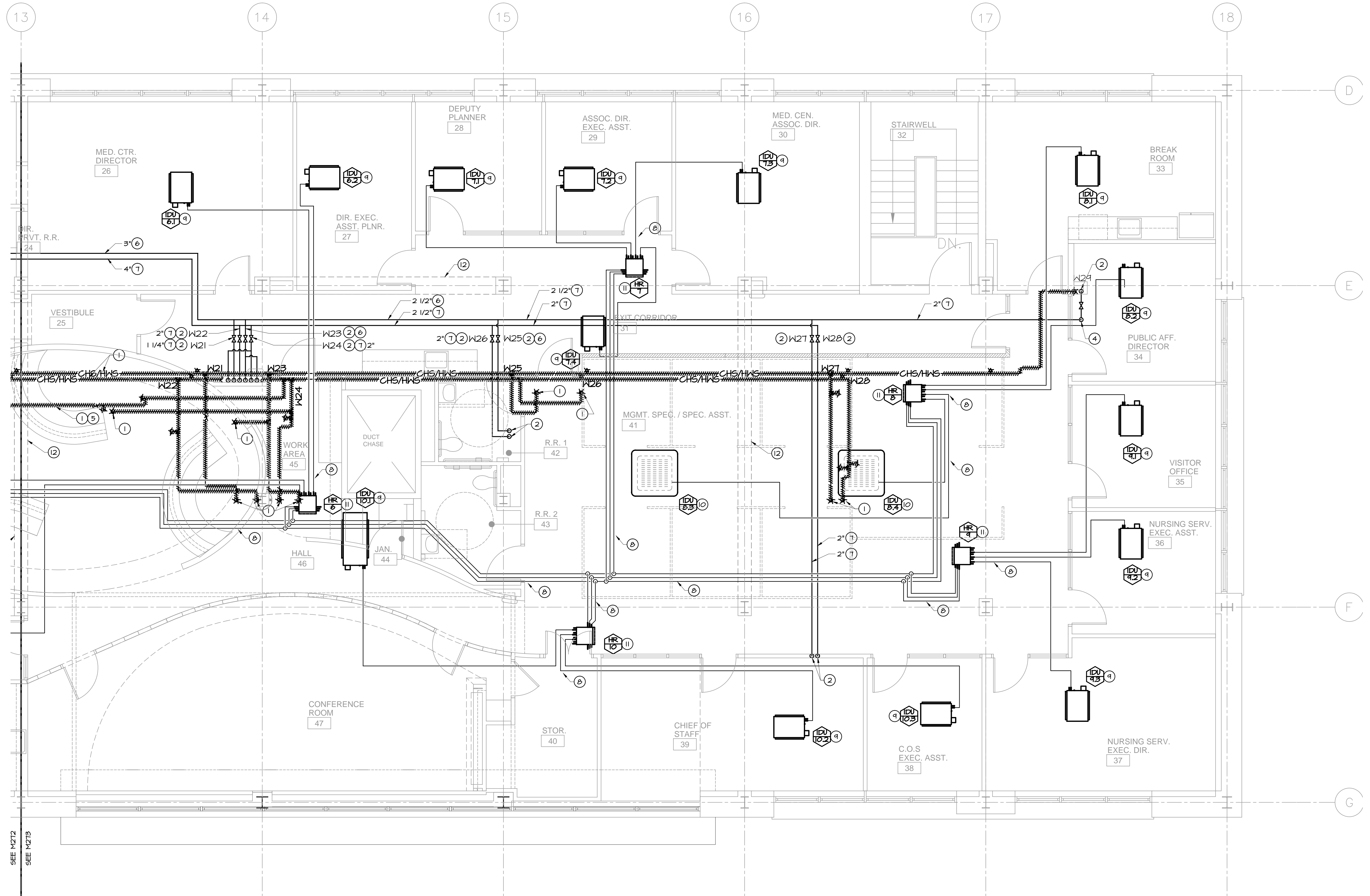
KEY PLAN



		CONSULTANTS:			ARCHITECT/ENGINEERS: <div><div>TETER, LLP 7535 N. PALM AVE. 201 FRESNO, CA 93711 559.437.8887 125 S. BRIDGE ST. 150 VISALIA, CA 93291 559.625.5246 ARCHITECTS ENGINEERS CONNECTED</div></div>	Drawing Title		Project Title		Project Number		Office of Construction and Facilities Management 
						7TH FLOOR PIPING PARTIAL PLAN		RENOVATE 7TH FLOOR BUILDING 1		510-15-202		
						Approved: Project Director		Location		Drawing Number		
								FRESNO, CA		1		
CONSTRUCTION DOCUMENT SUBMITTAL (100% CD REVIEW)	4-30-14							Date		M271		
CONSTRUCTION DOCUMENT SUBMITTAL (100%)	4-16-14							4-30-14		Dwg. 26 of 52		
CONSTRUCTION DOCUMENT SUBMITTAL (80%)	3-19-14							Checked		Drawn		
DESIGN DEVELOPMENT SUBMITTAL (30%)	2-14-14											
SCHEDULE DESIGN SUBMITTAL	12-4-13											
Revisions:	Date											

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10-23-05 AM jonathan.schlundt
5-D1-14
7TH FLOOR PIPING PARTIAL PLAN.dwg



7TH FLOOR PIPING PARTIAL FLOOR PLAN

SCALE: 1/4" = 1'-0"

1

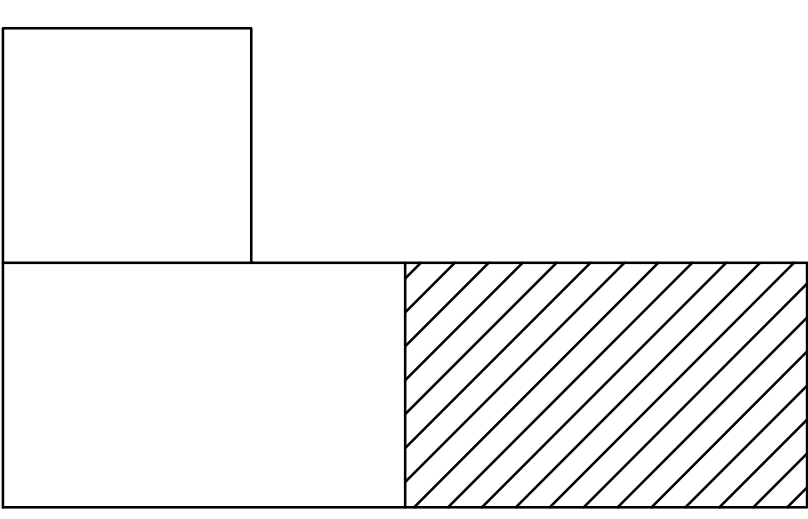
KEYNOTES

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- SUSPENDED FC MOUNTED PER DETAIL 14/M601.
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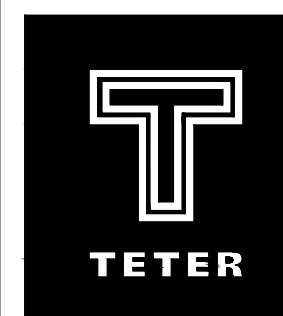
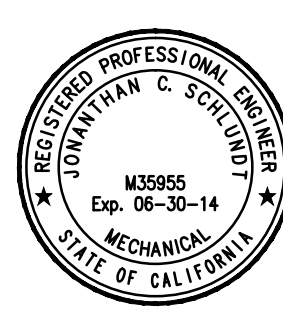
KEY PLAN



CONSTRUCTION DOCUMENT SUBMITTAL (100% CD REVIEW)	4-30-14
CONSTRUCTION DOCUMENT SUBMITTAL (100%)	4-16-14
CONSTRUCTION DOCUMENT SUBMITTAL (80%)	3-19-14
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SCHEMATIC DESIGN SUBMITTAL	12-4-13
Revisions:	Date

CONSULTANTS:

ARCHITECT/ENGINEERS:



TETER, LLP
7535 N. PALM AVE. 201 | FRESNO, CA 93711 | 559.437.8887
125 S. BRIDGE ST. 150 | VISALIA, CA 93291 | 559.625.5244
ARCHITECTS ENGINEERS CONNECTED

Drawing Title
7TH FLOOR PIPING PARTIAL PLAN

Approved: Project Director

Project Title
RENOVATE 7TH FLOOR BUILDING 1

Location
FRESNO, CA

Date
4-30-14

Checked
Drawn

Project Number
510-15-202

Building Number
1

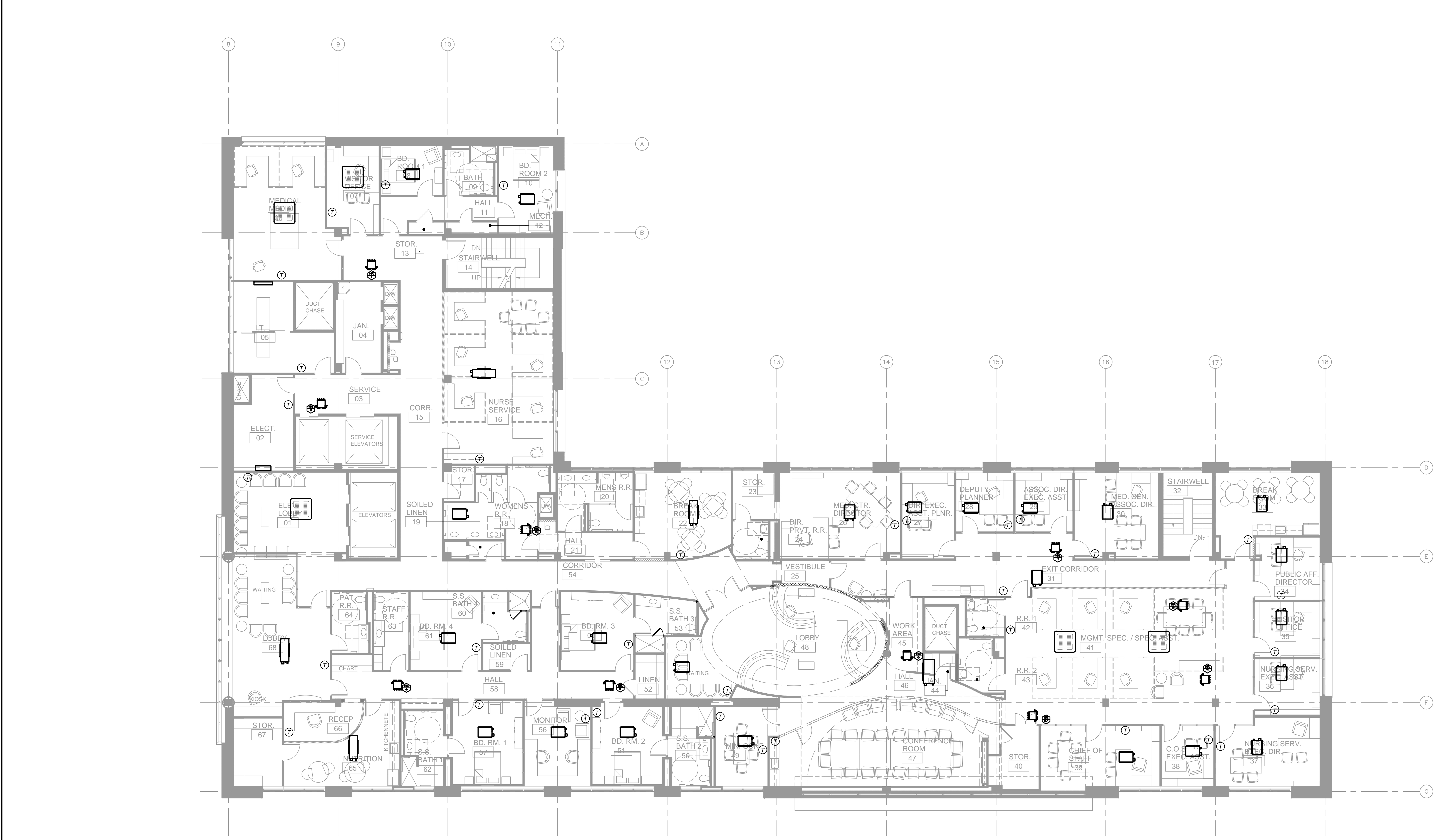
Drawing Number
M273

Dwg. 28 of 52

Office of
Construction
and Facilities
Management



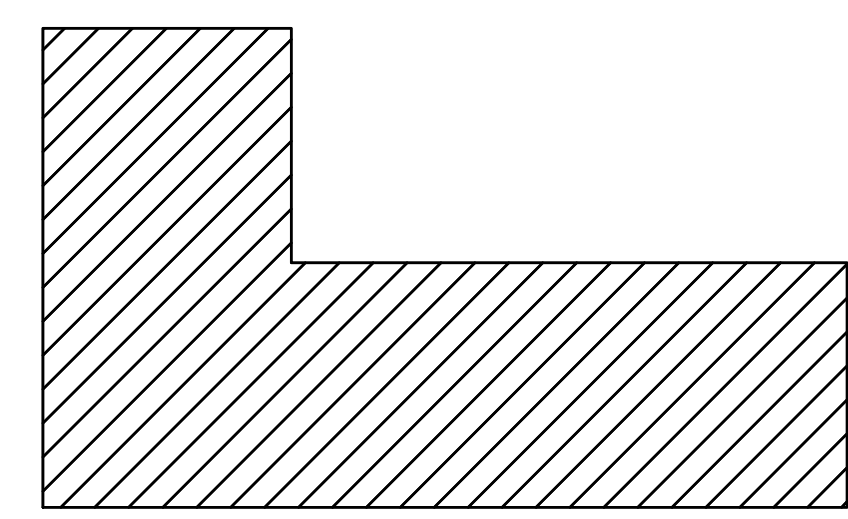
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7TH FLOOR PLAN

SCALE: 1/8" = 1'-0"

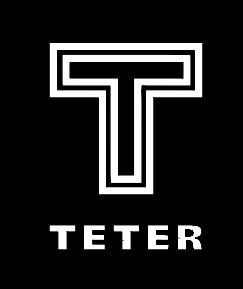
KEY PLAN



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SCHEMATIC DESIGN SUBMITTAL	12-4-13
Revisions:	Date

CONSULTANTS:

ARCHITECT/ENGINEERS:



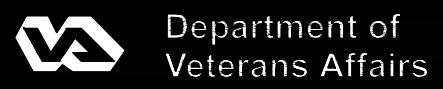
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125 S. BRIDGE ST. 150 | VISALIA, CA 93291 | 559.625.5244
ARCHITECTS ENGINEERS CONNECTED

Drawing Title
HVAC COORDINATION WITH FURNITURE
Approved: Project Director

Project Title
RENOVATE 7TH FLOOR BUILDING 1
Location
FRESNO, CA
Date
4-30-14
Checked
Drawn

Project Number
510-15-202
Building Number
1
Drawing Number
M280
Dwg. 29 of 52

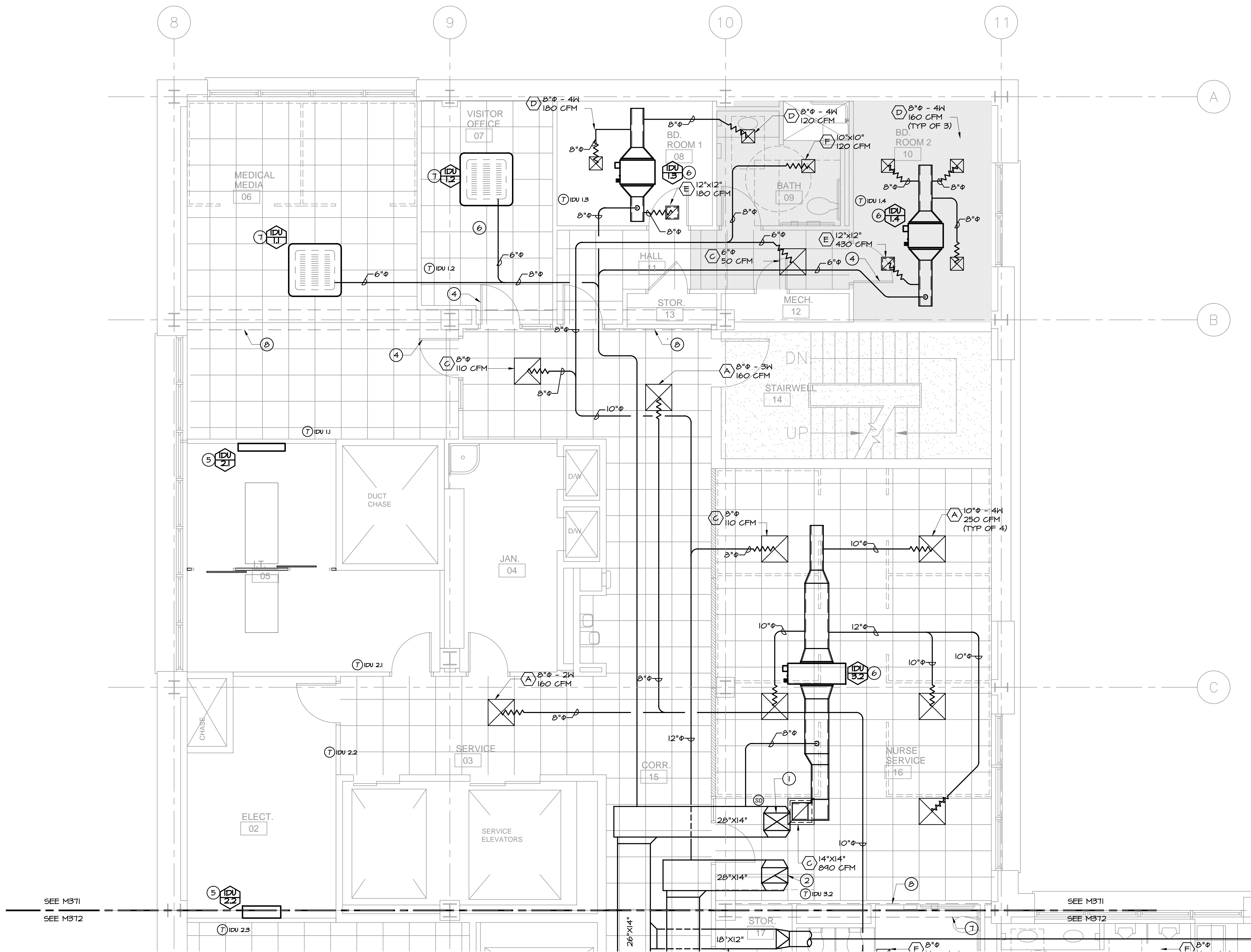
Office of
Construction
and Facilities
Management



Department of
Veterans Affairs

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J:\91\9113.00 VA - 7th Floor TUG-Project Drawings Sheets\M371 7TH FLOOR PARTIAL FLOOR PLAN.dwg 5-01-14 10:23:27 AM jonathan.schlundt



PARTIAL FLOOR PLAN - 7TH FLOOR

SCALE: 1/4" = 1'-0"

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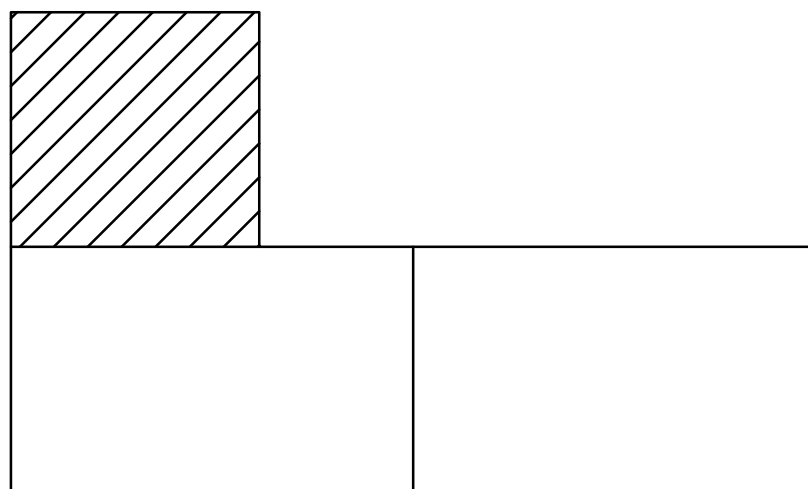
KEYNOTES

- 24"x16" OSA DUCT UP THRU ROOF TO ERV-I.
- 24"x14" EA DUCT UP THRU ROOF TO ERV.
- NOT USED
- DOOR TO BE UNDER-CUT AND SHALL MAINTAIN 3/4" MIN CLEARANCE. REFER TO ARCH.
- IDU MOUNTED TO WALL WITH MOUNTING BRACKET PER DETAIL I2M601. REFER TO DETAIL I0M601 FOR UNIT CLEARANCES.
- SUSPENDED FC MOUNTED PER DETAIL I4M601.
- INDOOR SUSPENDED CEILING CASSETTE MOUNTED PER DETAIL I3M601.
- OUTLINE OF CRITICAL LOW BEAM WITH LIMITED SPACE DUE TO CEILING HEIGHT. CONTRACTOR TO COORDINATE WITH (E) BEAM LOCATIONS AND (N) CONDITIONS.

GENERAL NOTES

- COORDINATION OF WORK: LAYOUT OF MATERIALS, EQUIPMENT AND SYSTEMS IS GENERALLY DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED. SOME WORK MAY BE SHOWN OFFSET FOR CLARITY.
- THE ACTUAL LOCATION OF ALL MATERIALS, PIPING, DUCTWORK, FIXTURES, EQUIPMENT, SUPPORTS, ETC. SHALL BE CAREFULLY PLANNED PRIOR TO INSTALLATION OF ANY WORK TO AVOID ALL INTERFERENCES WITH EACH OTHER OR WITH STRUCTURAL, ELECTRICAL, ARCHITECTURAL OR OTHER ELEMENTS.
- VERIFY THE PROPER VOLTAGE AND PHASE OF ALL EQUIPMENT WITH THE ELECTRICAL PLANS. ALL CONFLICTS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER PRIOR TO THE INSTALLATION OF ANY WORK OR THE ORDERING OF ANY EQUIPMENT.
- ALL DRAWINGS AND SPECIFICATIONS ARE TO BE CONSIDERED PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS PRIOR TO ANY CONSTRUCTION, INCLUDING ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENT SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR THE OWNER REPRESENTATIVE.
- EXISTING PIPING IS SHOWN IN THEIR APPROXIMATE LOCATIONS ONLY. INFORMATION OF (E) UTILITIES IS BASED UPON EXISTING DRAWINGS AND OWNER'S BEST KNOWLEDGE. EXISTING INFORMATION SHOWN MAY NOT BE TAKEN AS COMPREHENSIVE, AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE EXISTING INFORMATION SHOWN.
- PROVIDE ALL DUCT TRANSITION PIECES AND FITTINGS REQUIRED TO ACCOMMODATE MECHANICAL EQUIPMENT CONNECTIONS, STRUCTURE, ARCHITECTURAL ELEMENTS, AND CHANGES IN DUCT SIZES.

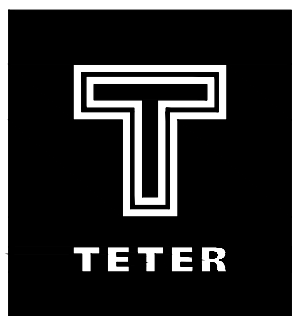
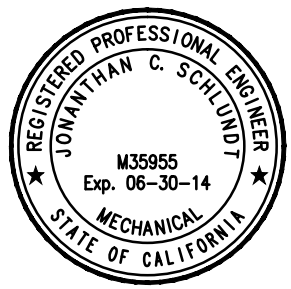
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CONSTRUCTION DOCUMENT SUBMITTAL (100% CD REVIEW)	4-30-14
CONSTRUCTION DOCUMENT SUBMITTAL (100%)	4-16-14
CONSTRUCTION DOCUMENT SUBMITTAL (80%)	3-19-14
DESIGN DEVELOPMENT SUBMITTAL (30%)	2-14-14
SCHEMATIC DESIGN SUBMITTAL	12-4-13

CONSULTANTS:

ARCHITECT/ENGINEERS:



TETER, LLP
7535 N. PALM AVE. 201 | FRESNO, CA 93711 | 559.437.8887
125 S. BRIDGE ST. 150 | VISALIA, CA 93291 | 559.625.5246
ARCHITECTS ENGINEERS CONNECTED

Drawing Title
7TH FLOOR PARTIAL FLOOR PLAN
Approved: Project Director

Project Title
RENOVATE 7TH FLOOR BUILDING 1
Location
FRESNO, CA
Date
4-30-14
Checked
Drawn

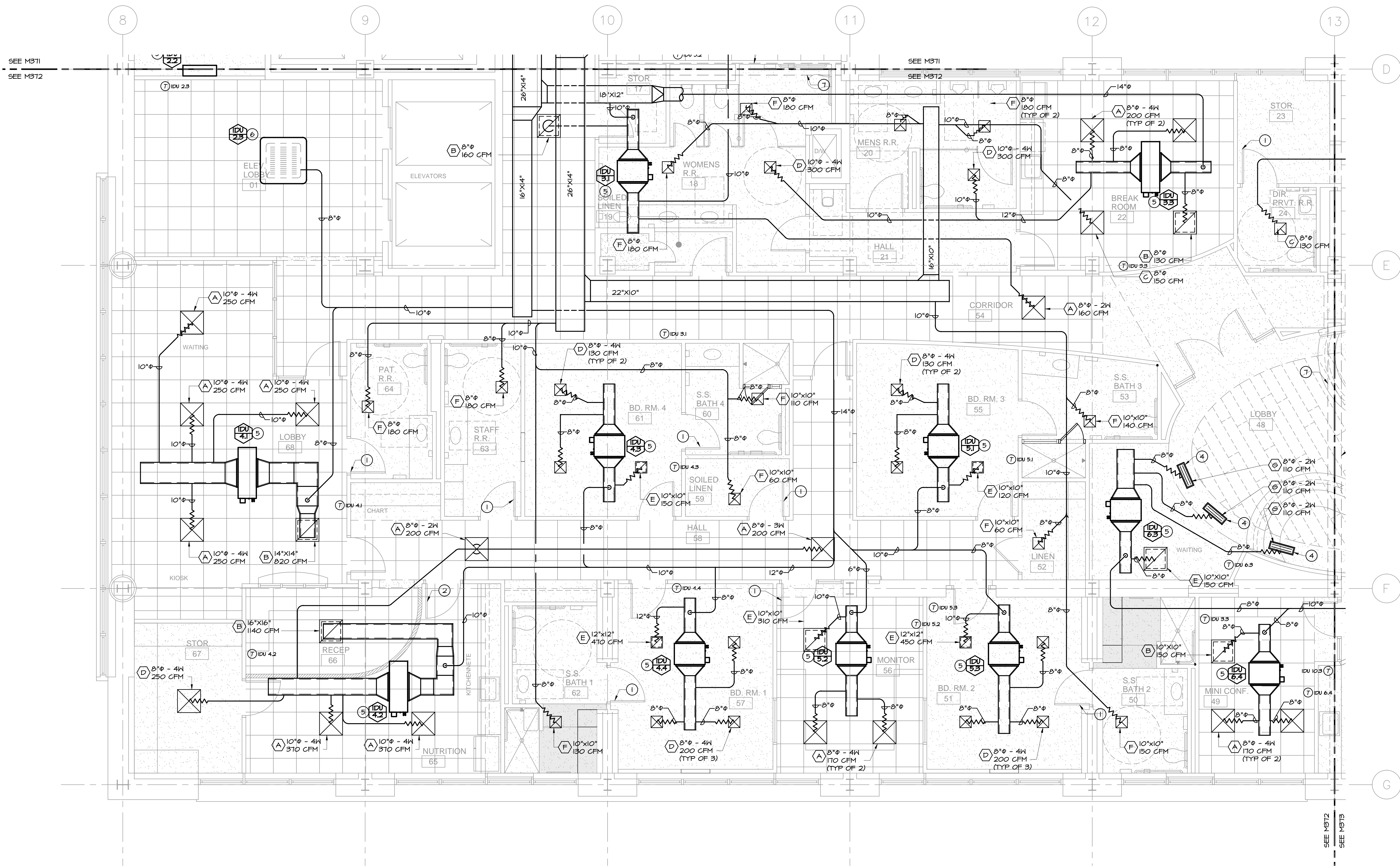
Project Number
510-15-202
Building Number
1
Drawing Number
M371
Dwg. 30 of 52

Office of
Construction
and Facilities
Management



three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
one quarter inch = one foot
one eighth inch = one foot

3-91-9-11-3-00 VA - 7th Floor TUG-Project Drawings Sheets M372 7TH FLOOR PARTIAL FLOOR PLAN.dwg 5-01-14 10:23:36 AM jonathan.schlundt



PARTIAL FLOOR PLAN - 7TH FLOOR

SCALE: 1/4" = 1'-0"

1

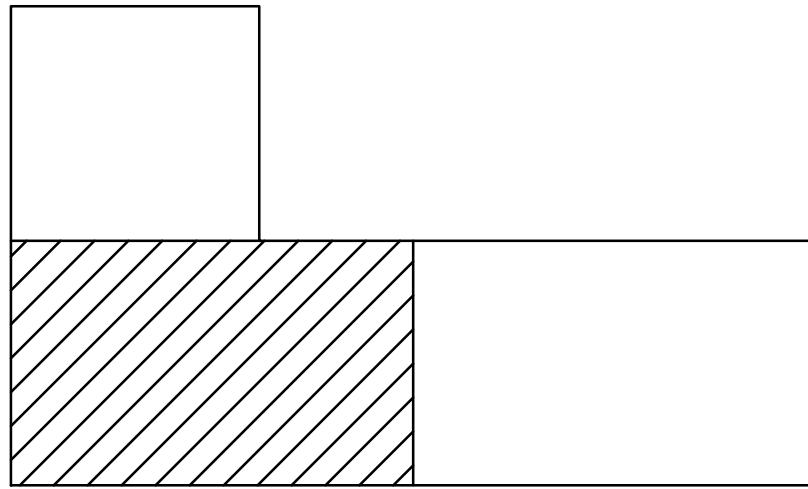
KEYNOTES

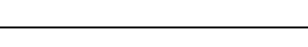
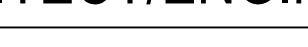
- DOOR TO BE UNDER-CUT AND SHALL MAINTAIN 3/4" MIN CLEARANCE. REFER TO ARCH.
- PROVIDE 12"x10" LOUVER IN DOOR.
- NOT USED.
- SUPPLY PLENUM TO FIT WITHIN SOFFIT FOR SUPPLY INTO SPACE.
- SUSPENDED FC MOUNTED PER DETAIL 14M601.
- INDOOR SUSPENDED CEILING CASSETTE MOUNTED PER DETAIL 13M601.
- OUTLINE OF CRITICAL LON BEAM WITH LIMITED SPACE DUE TO CEILING HEIGHT. CONTRACTOR TO COORDINATE WITH (E) BEAM LOCATIONS AND (N) CONDITIONS.

GENERAL NOTES

- COORDINATION OF WORK: LAYOUT OF MATERIALS, EQUIPMENT AND SYSTEMS IS GENERALLY DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED. SOME WORK MAY BE SHOWN OFFSET FOR CLARITY.
- THE ACTUAL LOCATION OF ALL MATERIALS, PIPING, DUCTWORK, FIXTURES, EQUIPMENT, SUPPORTS, ETC. SHALL BE CAREFULLY PLANNED PRIOR TO INSTALLATION OF ANY WORK TO AVOID ALL INTERFERENCES WITH EACH OTHER OR WITH STRUCTURAL, ELECTRICAL, ARCHITECTURAL OR OTHER ELEMENTS.
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- PROVIDE ALL DUCT TRANSITION PIECES AND FITTINGS REQUIRED TO ACCOMMODATE MECHANICAL EQUIPMENT CONNECTIONS, STRUCTURE, ARCHITECTURAL ELEMENTS, AND CHANGES IN DUCT SIZES.

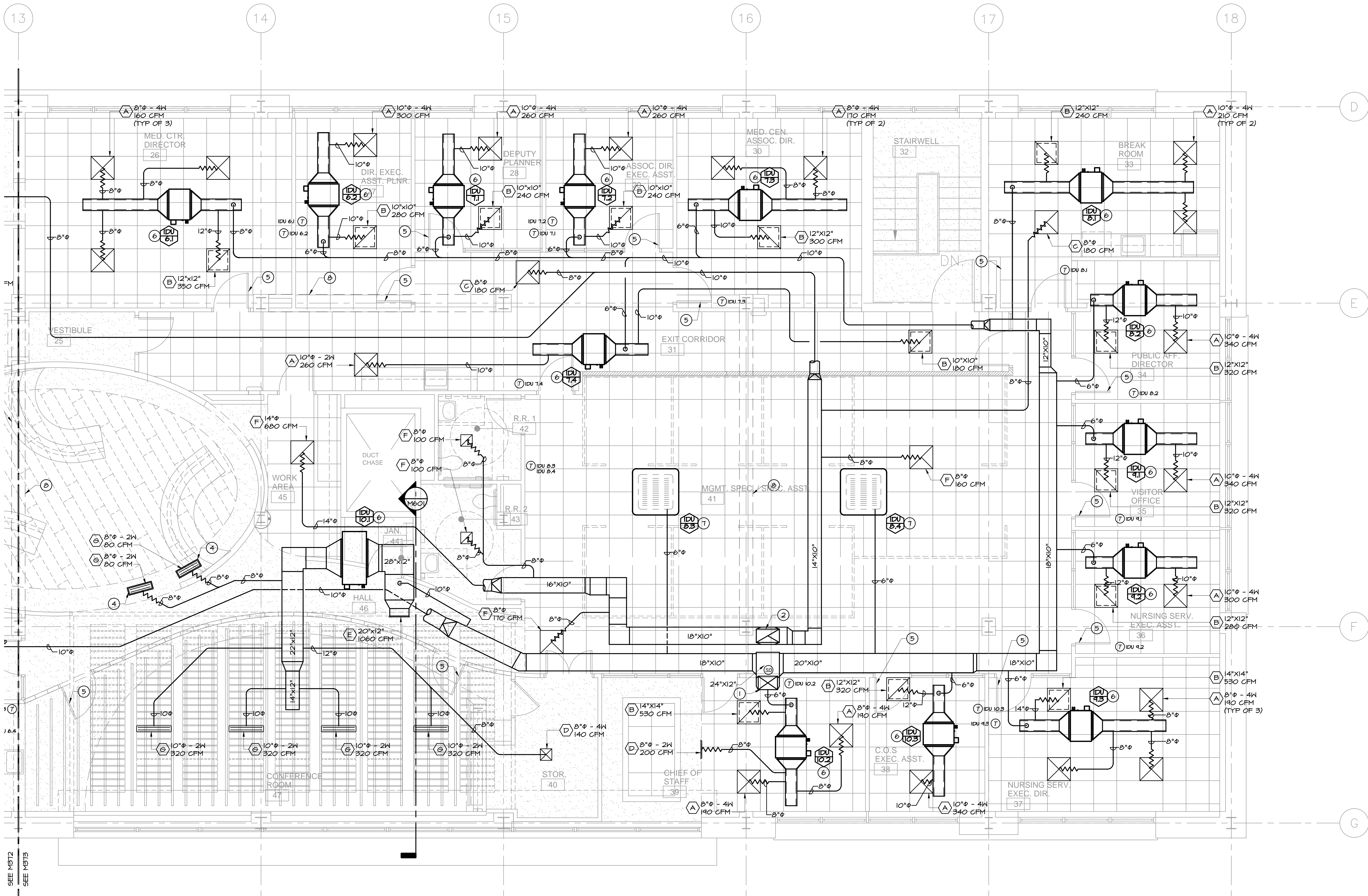
KEY PLAN



		CONSULTANTS:				ARCHITECT/ENGINEERS:		Drawing Title		Project Title		Project Number		Office of Construction and Facilities Management	
								7TH FLOOR PARTIAL FLOOR PLAN		RENOVATE 7TH FLOOR BUILDING 1		570-15-202			
										Location		Building Number		Department of Veterans Affairs	
						TETER, LLP 7535 N. PALM AVE. 201 FRESNO, CA 93711 559.437.0887 125 S. BRIDGE ST. 150 VISALIA, CA 93291 559.425.5246 ARCHITECTS ENGINEERS CONNECTED		FRESNO, CA		1					
		CONSTRUCTION DOCUMENT SUBMITTAL (100% CD REVIEW)		4-30-14				Approved: Project Director		Date		Checked		Drawing Number	
		CONSTRUCTION DOCUMENT SUBMITTAL (100%)		4-16-14						4-30-14				M372	
		CONSTRUCTION DOCUMENT SUBMITTAL (60%)		3-19-14										Dwg. 31 of 52	
		DESIGN DEVELOPMENT SUBMITTAL (30%)		2-14-14											
		SCHEMATIC DESIGN SUBMITTAL		12-4-13											
		Revisions:		Date											

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
one quarter inch = one foot
one eighth inch = one foot

3-91-19-113.00 VA - 7th Floor TUG-Project Drawings Sheets M\M373 7TH FLOOR PARTIAL FLOOR PLAN.dwg 5-01-14 10:23:45 AM jonathan.schlundt



PARTIAL FLOOR PLAN - 7TH FLOOR

SCALE: 1/4" = 1'-0"

1

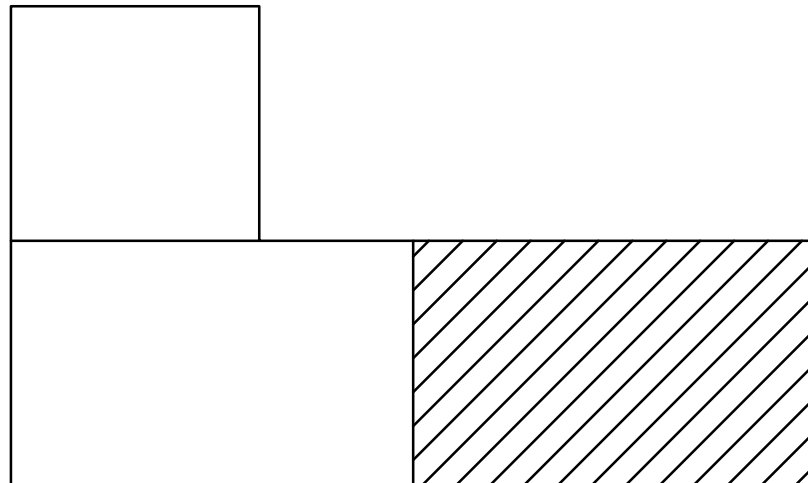
KEYNOTES

- 24"x16" OSA DUCT UP THRU ROOF TO ERV.
- 24"x14" EA DUCT UP THRU ROOF TO ERV.
- NOT USED
- SUPPLY PLENUM TO FIT WITHIN SOFFIT INTO SPACE.
- DOOR TO BE UNDER-CUT AND SHALL MAINTAIN 3/4" MIN CLEARANCE. REFER TO ARCH.
- SUSPENDED FC MOUNTED PER DETAIL 14M601.
- INDOOR SUSPENDED CEILING CASSETTE MOUNTED PER DETAIL 14M601.
- OUTLINE OF CRITICAL LON BEAM WITH LIMITED SPACE DUE TO CEILING HEIGHT. CONTRACTOR TO COORDINATE WITH (E) BEAM LOCATIONS AND (N) CONDITIONS.

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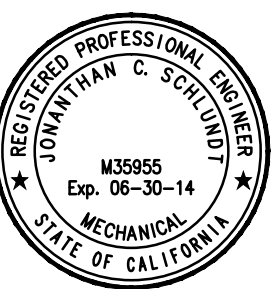
KEY PLAN



CONSTRUCTION DOCUMENT SUBMITTAL (100% CD REVIEW)	4-30-14
CONSTRUCTION DOCUMENT SUBMITTAL (100%)	4-16-14
CONSTRUCTION DOCUMENT SUBMITTAL (80%)	3-19-14
DESIGN DEVELOPMENT SUBMITTAL (30%)	2-14-14
SCHEMATIC DESIGN SUBMITTAL	12-4-13
Revisions:	Date

CONSULTANTS:

ARCHITECT/ENGINEERS:



TETER, LLP
7535 N. PALM AVE. 201 | FRESNO, CA 93711 | 559.437.0887
125 S. BRIDGE ST. 150 | VISALIA, CA 93291 | 559.625.5244
ARCHITECTS ENGINEERS CONNECTED

Drawing Title	7TH FLOOR PARTIAL FLOOR PLAN
Approved: Project Director	

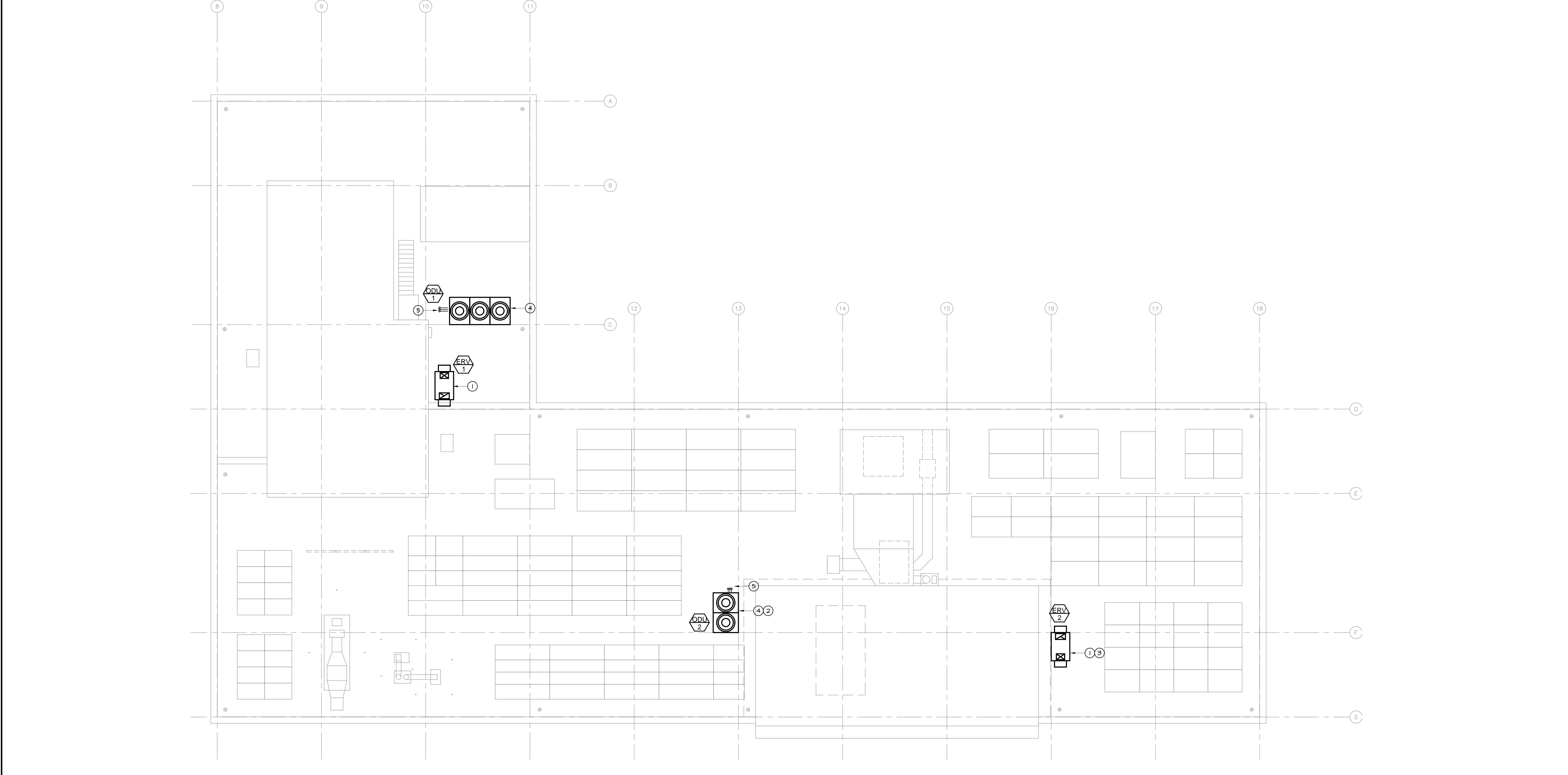
Project Title	RENOVATE 7TH FLOOR BUILDING 1
Location	FRESNO, CA
Date	4-30-14
Checked	
Drawn	

Project Number	570-15-202
Building Number	1
Drawing Number	M373
Dwg. 32 of 52	

Office of
Construction
and Facilities
Management



one eighth inch = one foot
one quarter inch = one foot
three eighths inch = one foot
one half inch = one foot
three quarters inch = one foot
one inch = one foot
one and one half inches = one foot
three inches = one foot



ROOF PLAN

SCALE: 1/8" = 1'-0"

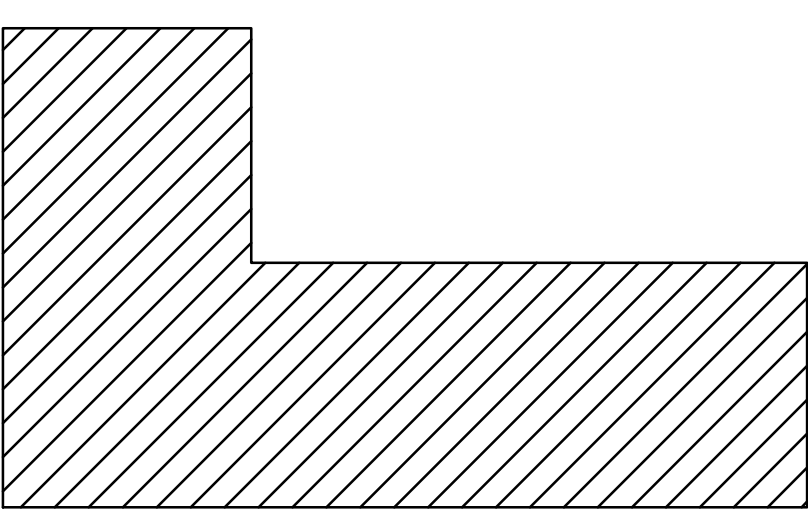
KEYNOTES

- 1. ERV UNIT WITH DUCT DN THRU ROOF. COORDINATE DUCT SIZING AND ROOF OPENING PER MANUFACTURER RECOMMENDATIONS. MOUNT UNIT TO ROOF CURB PER DETAIL 12M600.
- 2. REMOVE (E) ROOF SUPPORTS FROM PREVIOUS RTU IN LOCATION.
- 3. REMOVE (E) ROOF PLATFORM FROM PREVIOUS RTU IN LOCATION.
- 4. ODU UNIT WITH REFRIGERANT PIPE DROPS THRU ROOF. REFER TO DETAILS 18M600 AND 20M600 FOR PIPE SIZES. MOUNT UNIT TO PLATFORM PER DETAIL 1M600.
- 5. PIPE DROPS THRU ROOF. REFER TO DETAIL 12M600 FOR PENETRATION DETAIL.

GENERAL NOTES

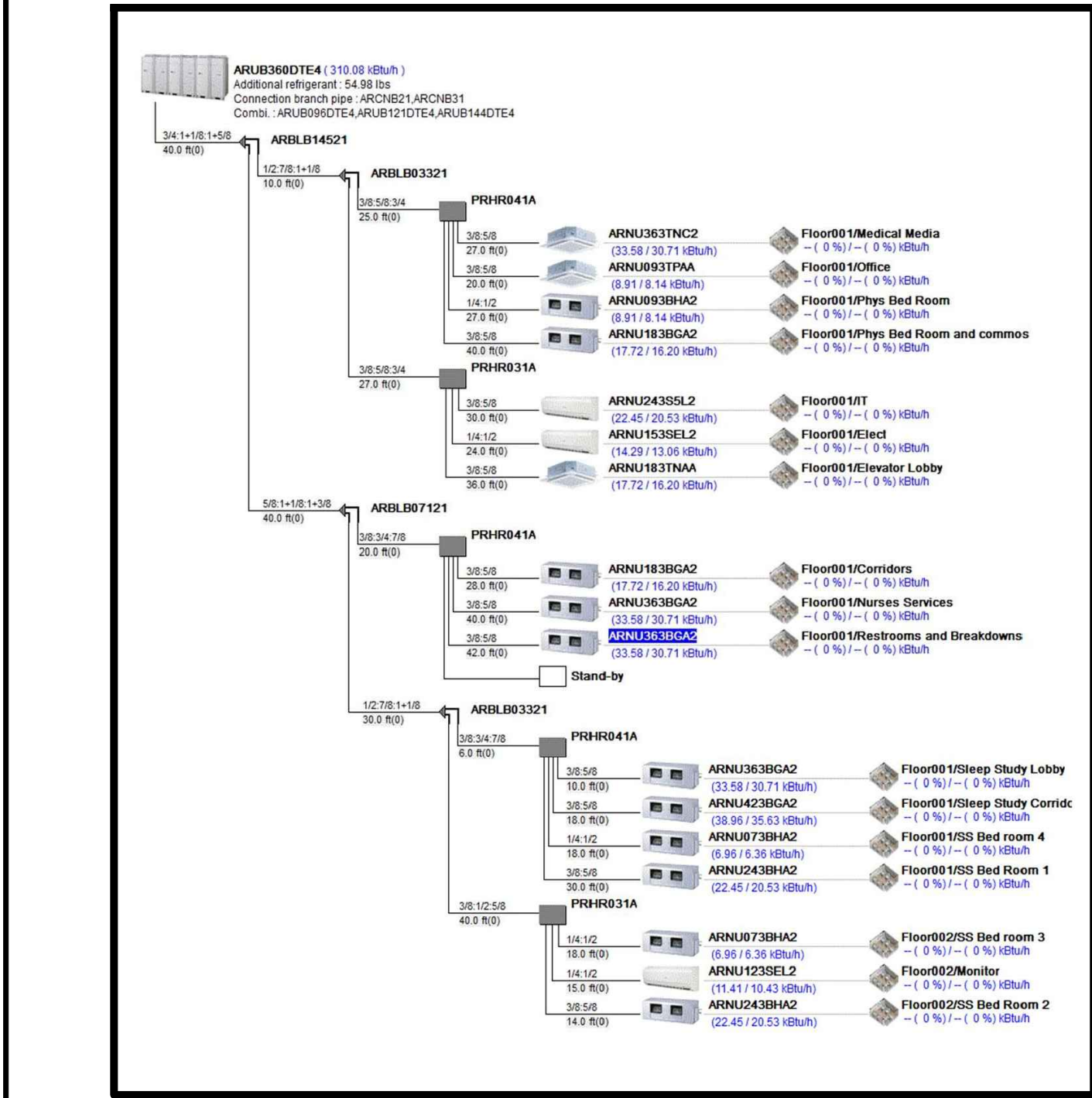
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- 6. PROVIDE ALL DUCT TRANSITION PIECES AND FITTINGS REQUIRED TO ACCOMMODATE MECHANICAL EQUIPMENT CONNECTIONS, STRUCTURE, ARCHITECTURAL ELEMENTS, AND CHANGES IN DUCT SIZES.

KEY PLAN

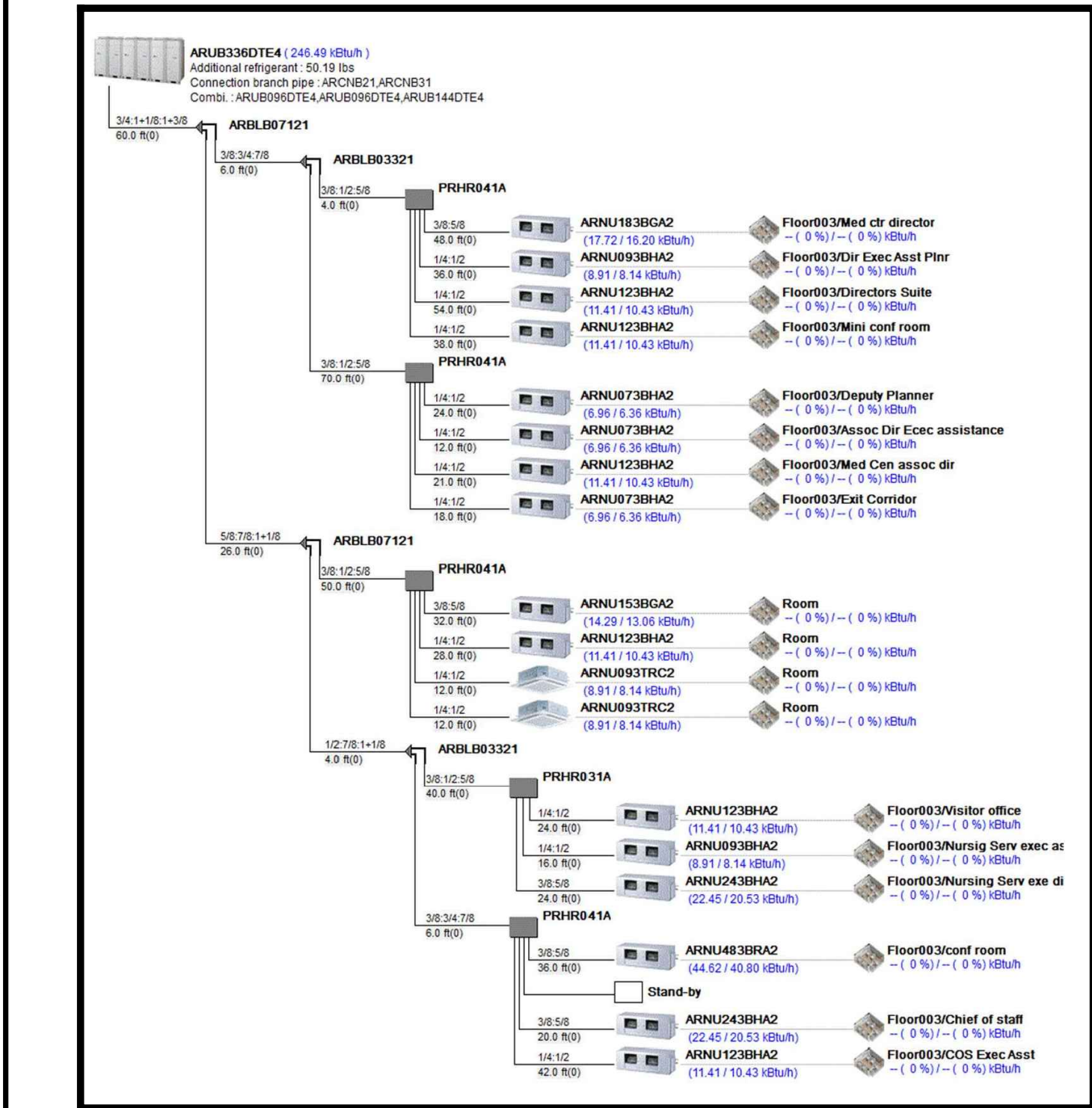


<div>CONSTRUCTION DOCUMENT SUBMITTAL (100% CD REVIEW)4-30-14</div> <div>CONSTRUCTION DOCUMENT SUBMITTAL (100%)4-16-14</div> <div>CONSTRUCTION DOCUMENT SUBMITTAL (80%)3-19-14</div> <div>DESIGN DEVELOPMENT SUBMITTAL (30%)2-14-14</div> <div>SCHEMATIC DESIGN SUBMITTAL12-4-13</div> <div>Revisions:Date</div>		<div>CONSULTANTS:</div>		<div></div>	<div>ARCHITECT/ENGINEERS:</div> <div>TETER, LLP 7535 N. PALM AVE. 201 FRESNO, CA 93711 559.437.8887 125 S. BRIDGE ST. 150 VISALIA, CA 93291 559.625.5246 ARCHITECTS ENGINEERS CONNECTED</div>		<div>Drawing Title</div> <div>ROOF PLAN</div> <div>Approved: Project Director</div>		<div>Drawing Title</div> <div>RENOVATE 7TH FLOOR BUILDING 1</div> <div>Location FRESNO, CA</div> <div>Date 4-30-14</div> <div>Checked</div> <div>Drawn</div>		<div>Project Number 570-15-202</div> <div>Building Number 1</div> <div>Drawing Number M500 Dwg. 33 of 52</div>	<div>Office of Construction and Facilities Management</div> <div>Department of Veterans Affairs</div>
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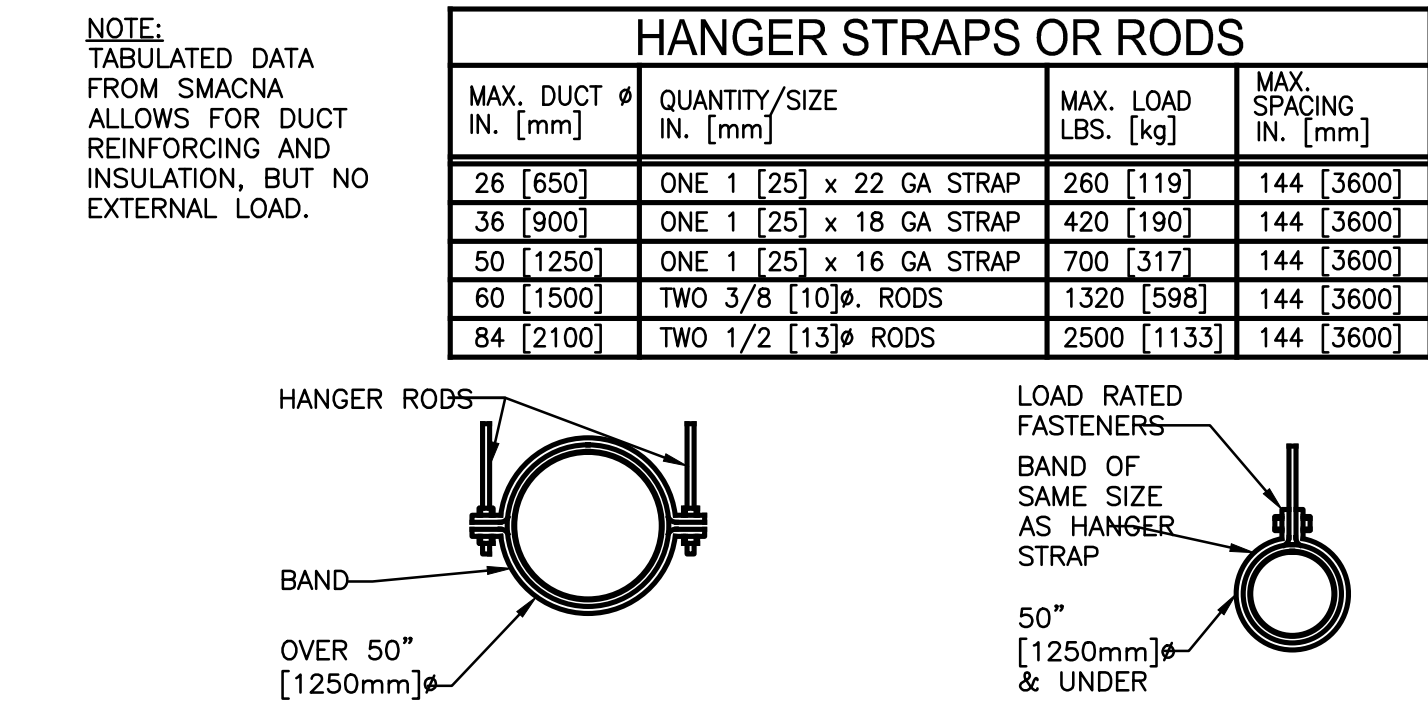
three inches = one foot
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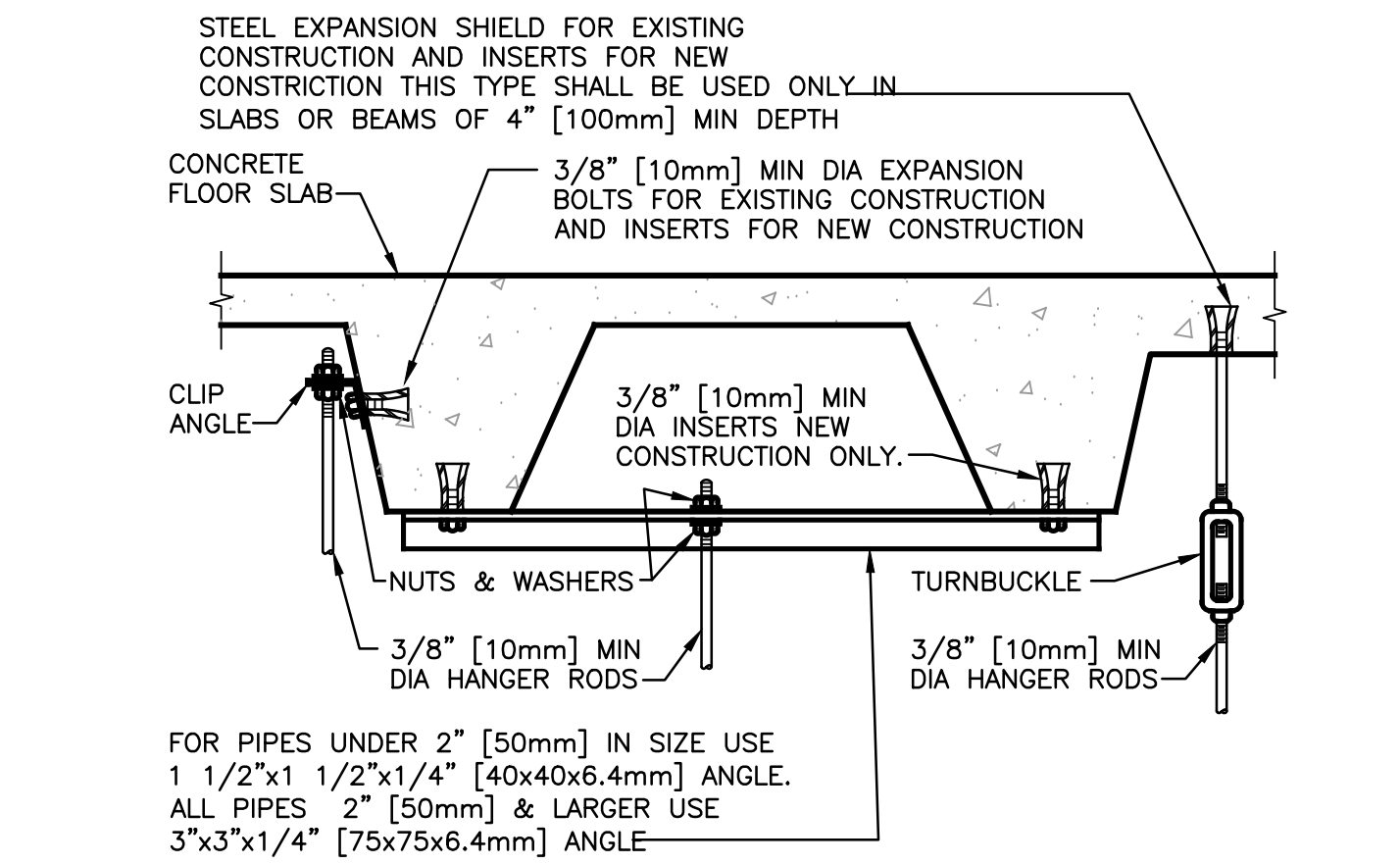
VRF PIPING SCHEMATIC FOR ODU-1



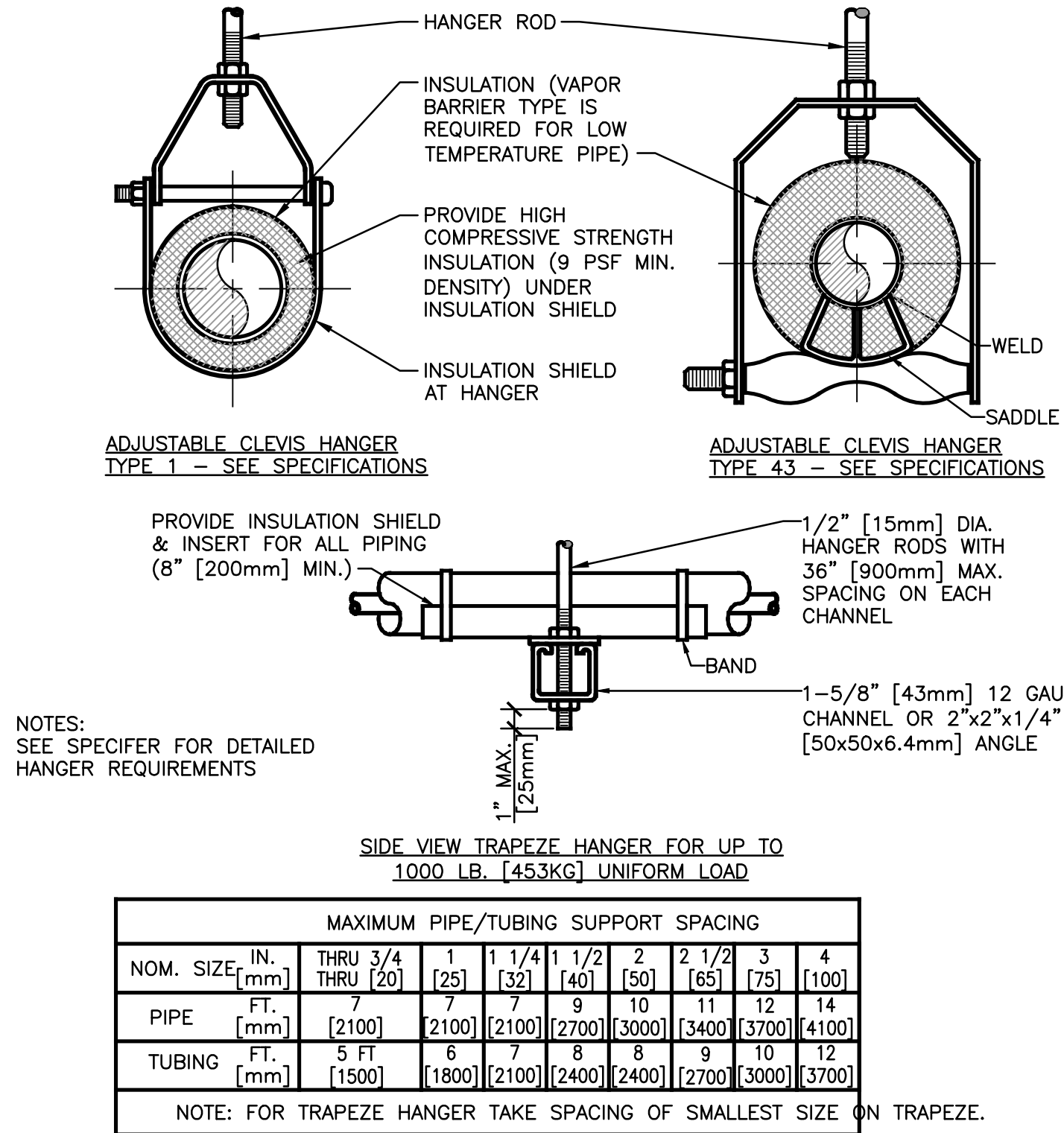
VRF PIPING SCHEMATIC FOR ODU-2



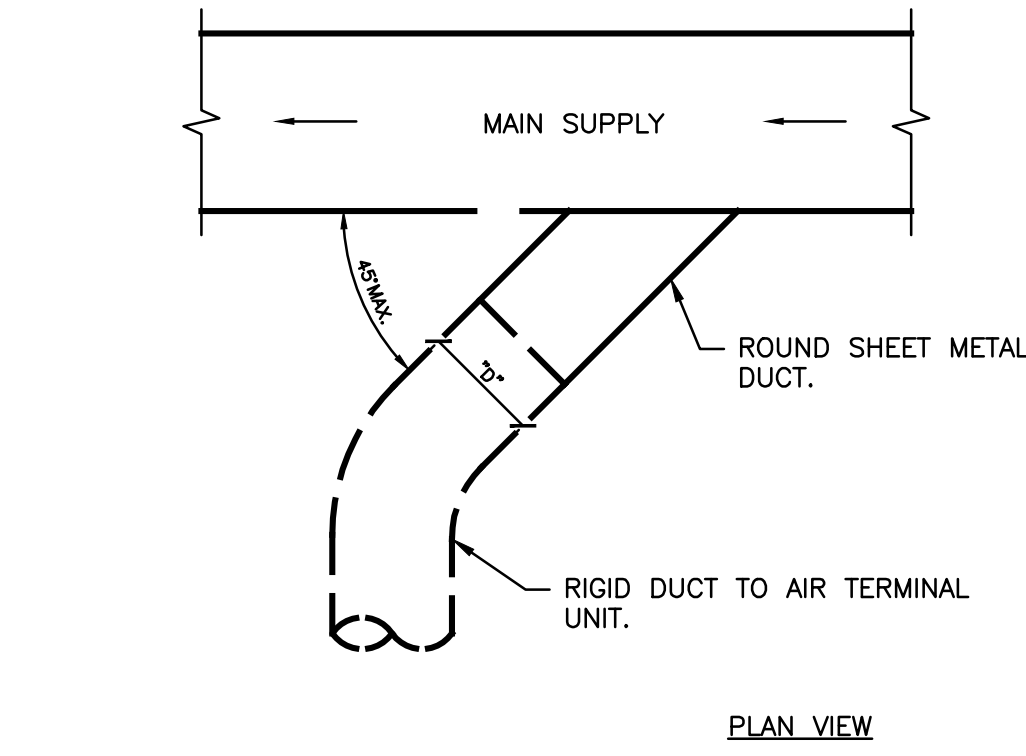
ROUND DUCT HANGERS



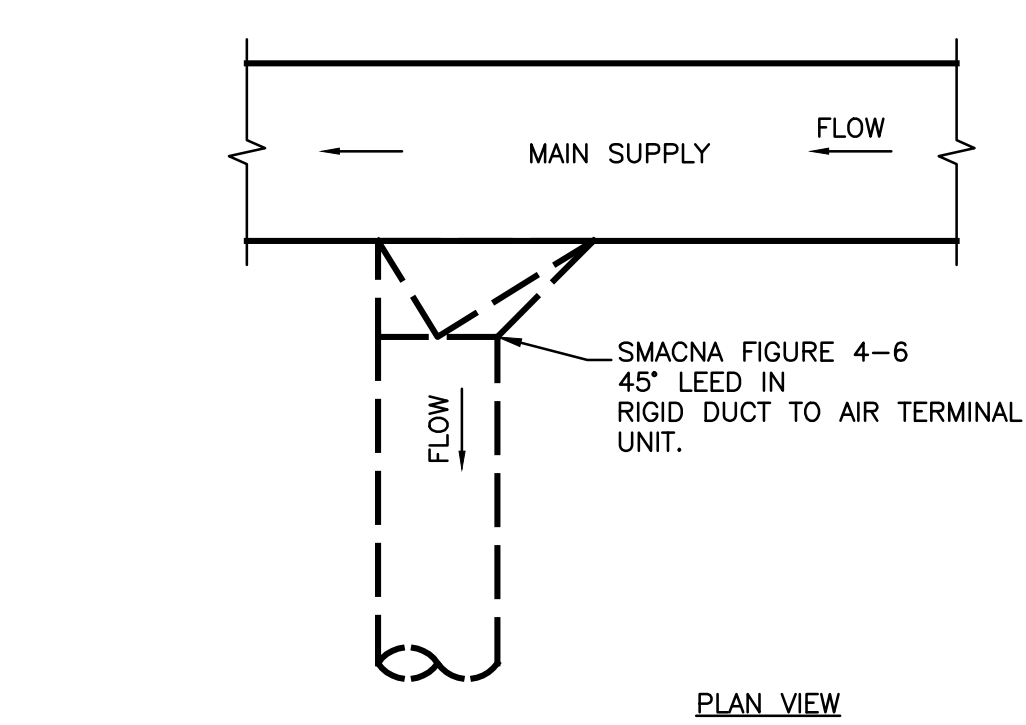
SECURING HANGER RODS IN CONCRETE



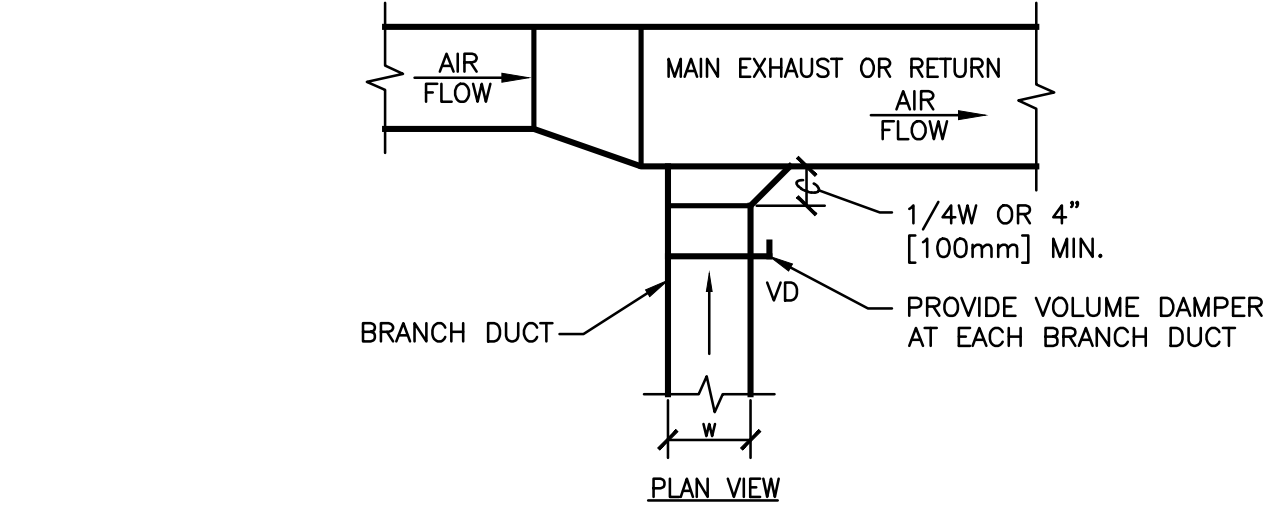
PIPE HANGERS



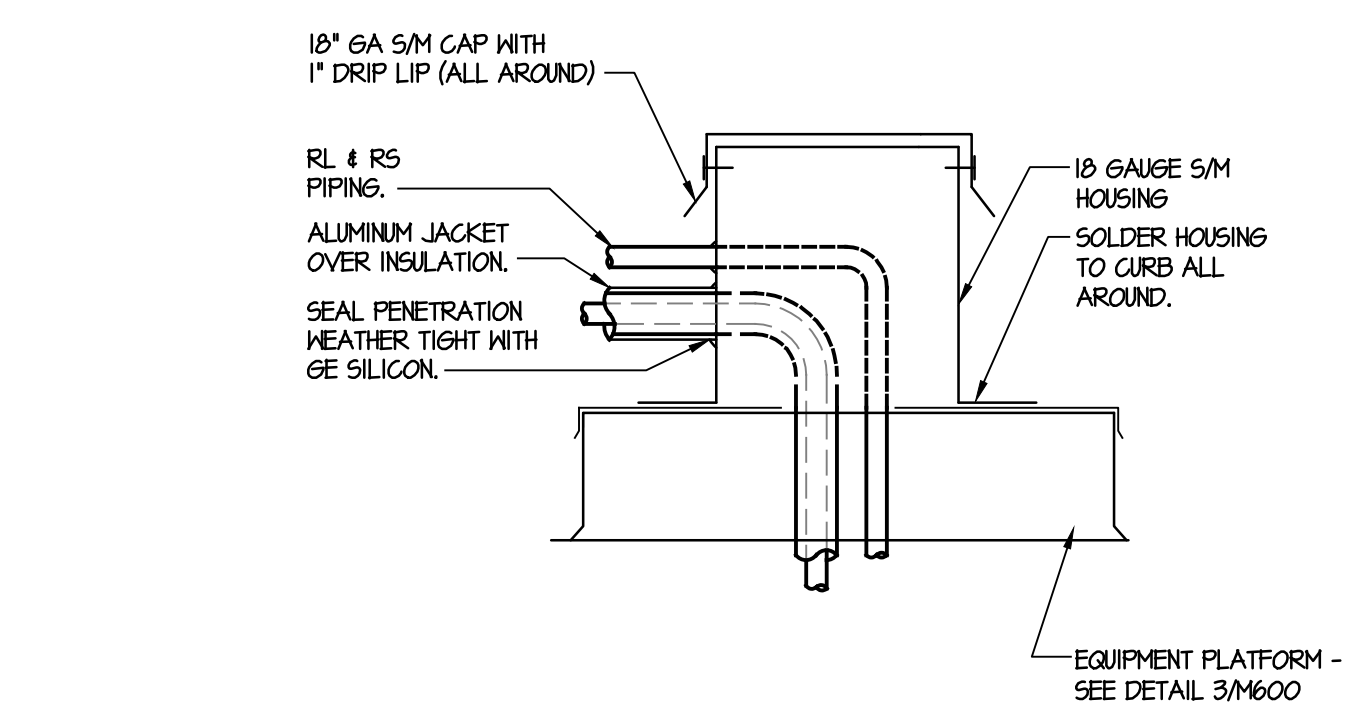
SUPPLY DUCT TAKEOFF



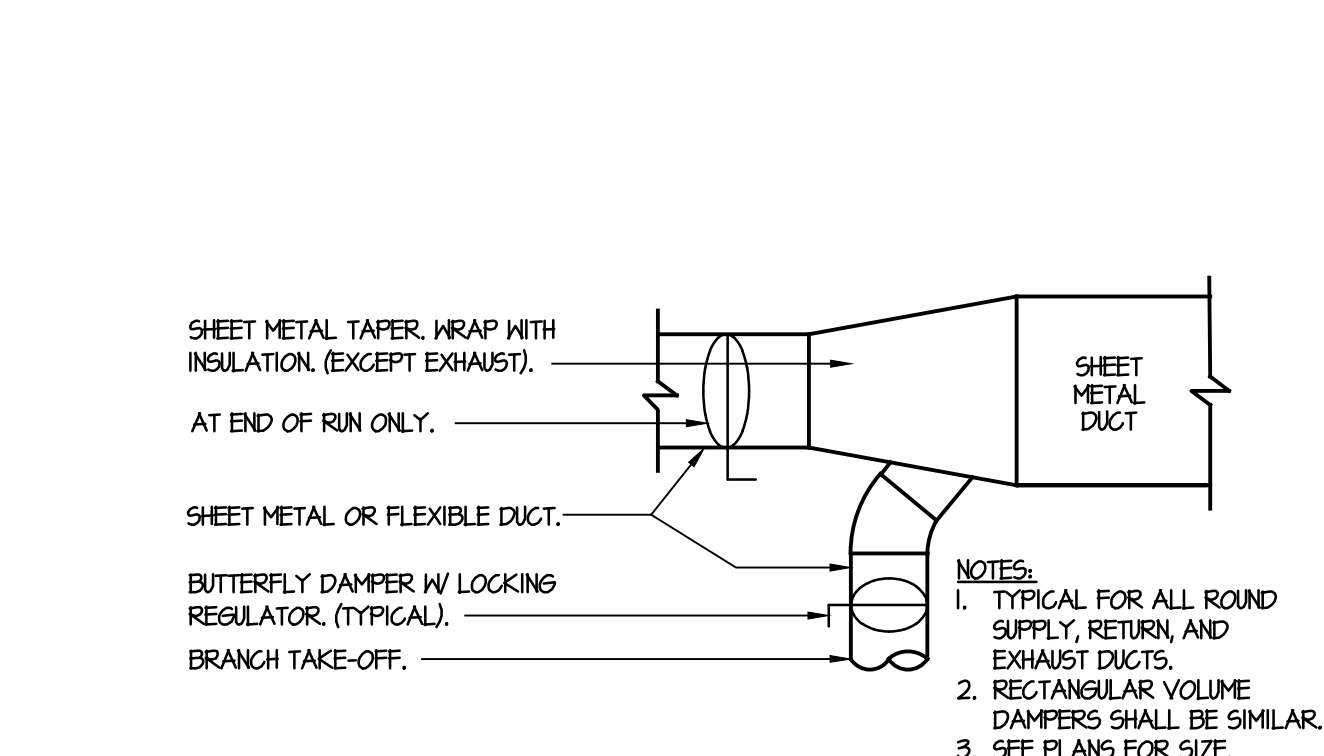
ALTERNATE SUPPLY DUCT TAKEOFF



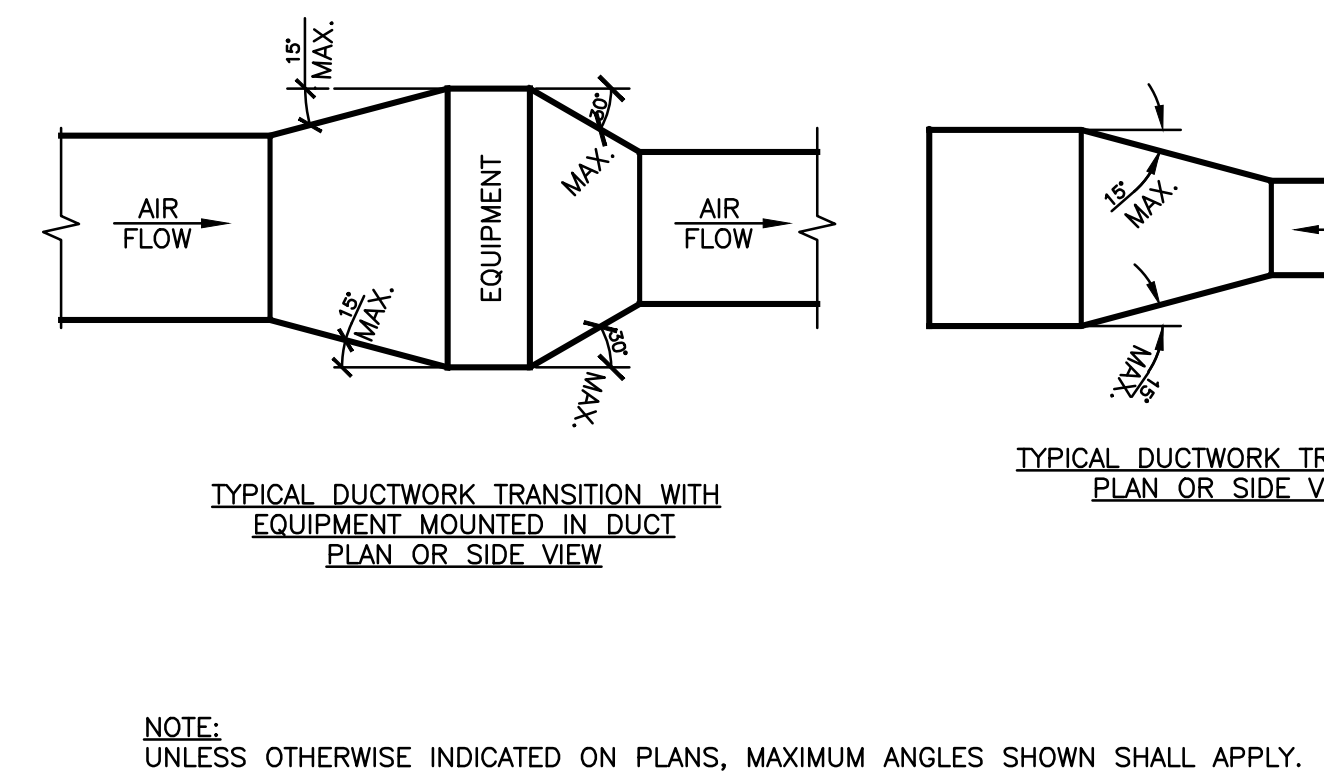
EXHAUST OR RETURN BRANCH DUCTWORK



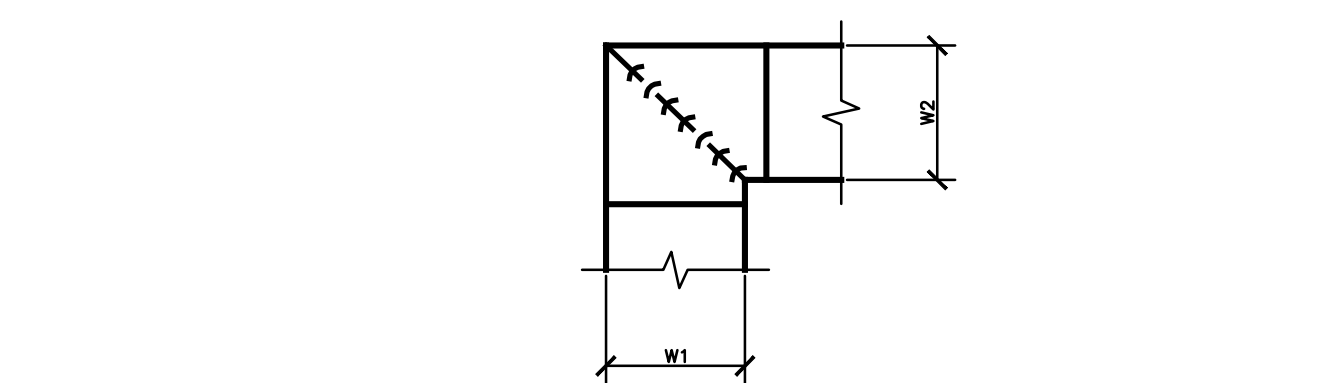
REFRIGERANT PIPE ROOF PENETRATION



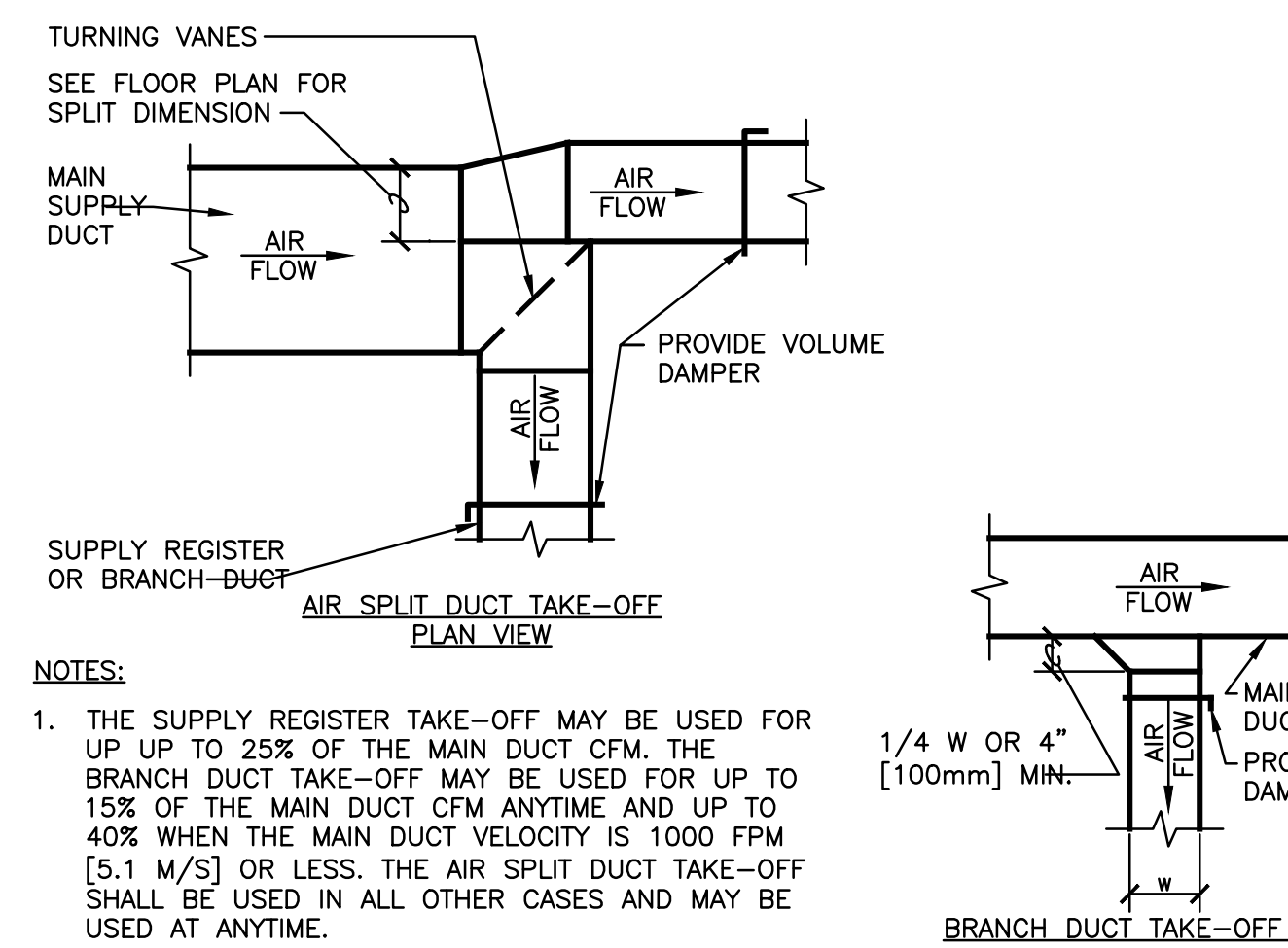
VOLUME DAMPER DETAIL



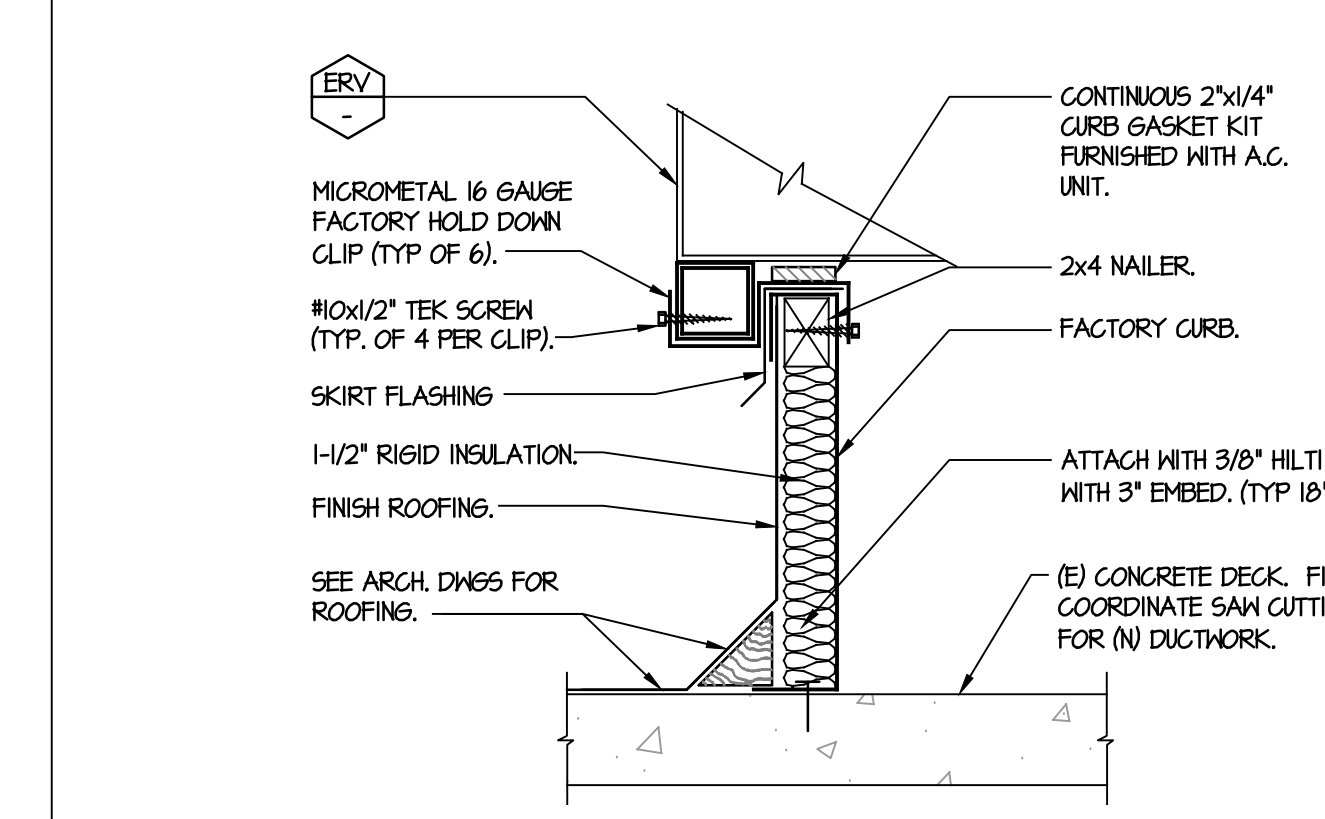
DUCTWORK TRANSITIONS



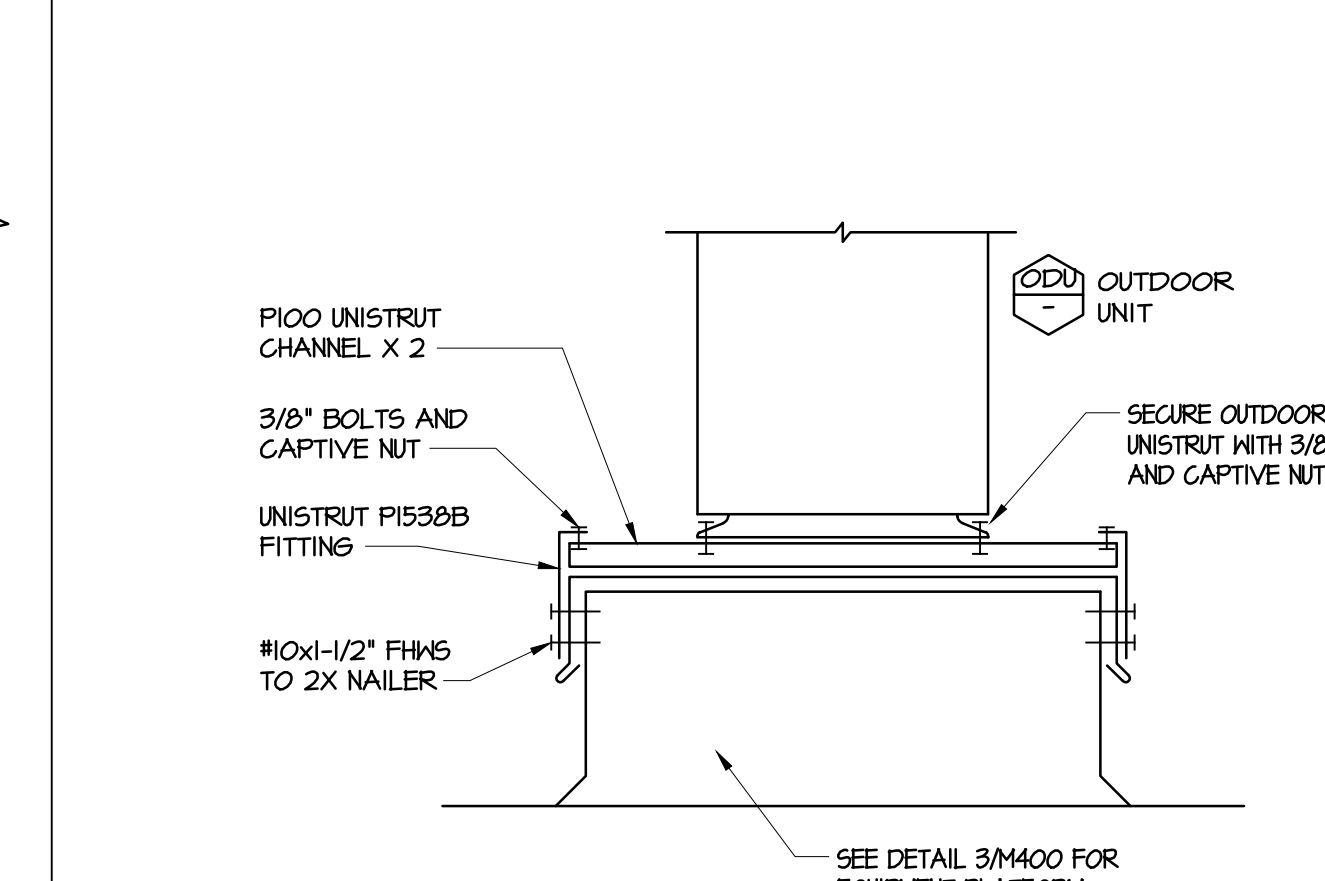
DUCTWORK SQUARE VANE ELBOWS



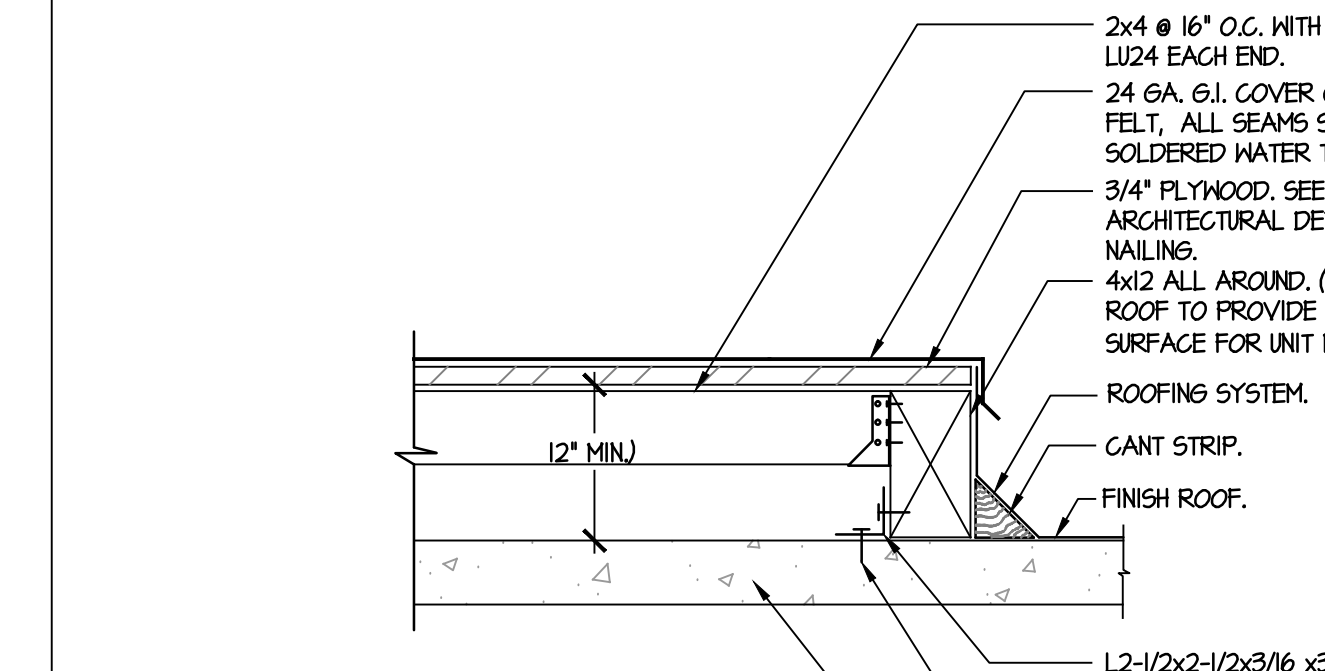
SUPPLY DUCTWORK TAKE-OFFS



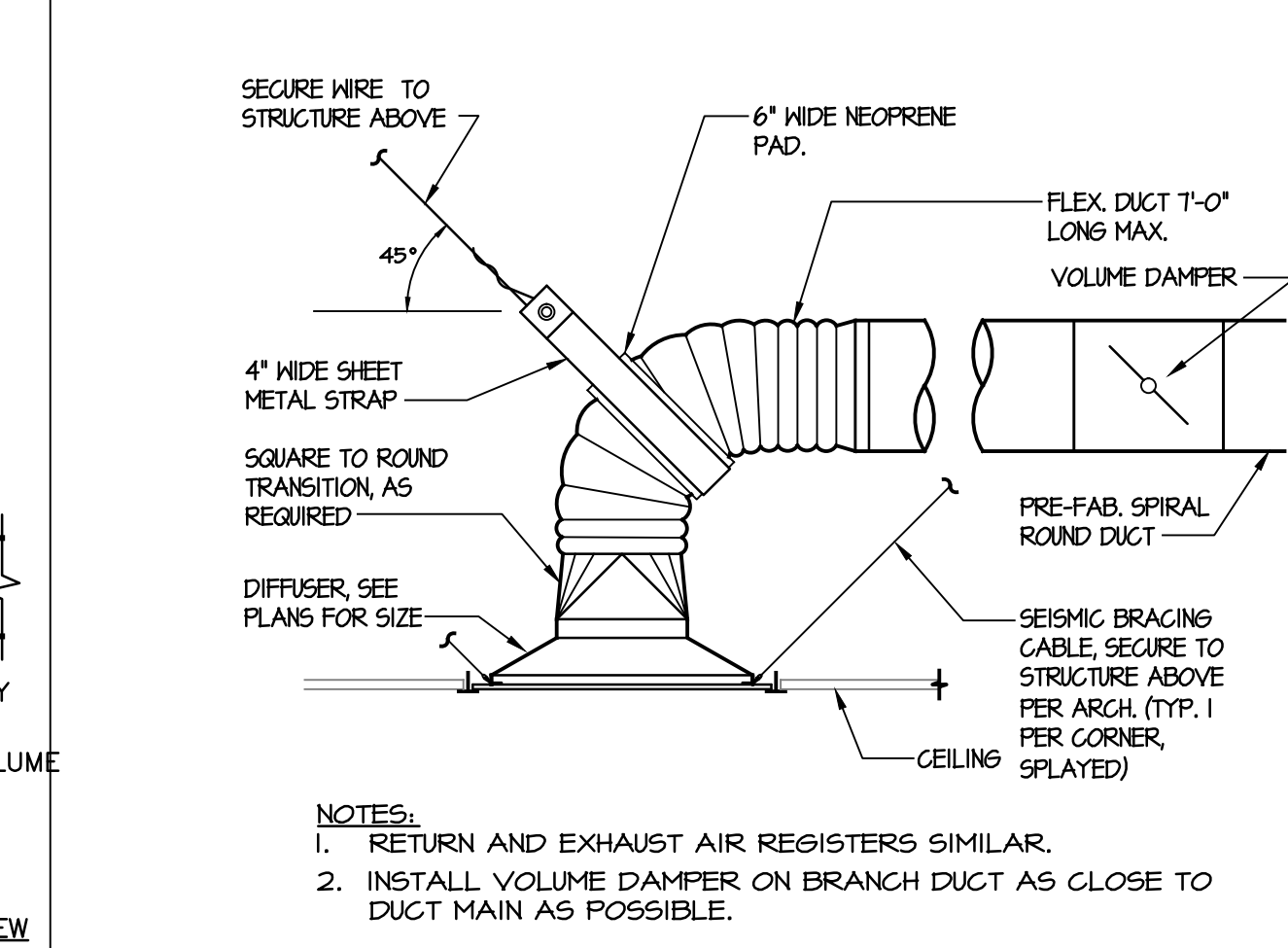
PACKAGE UNIT EQUIPMENT CURB



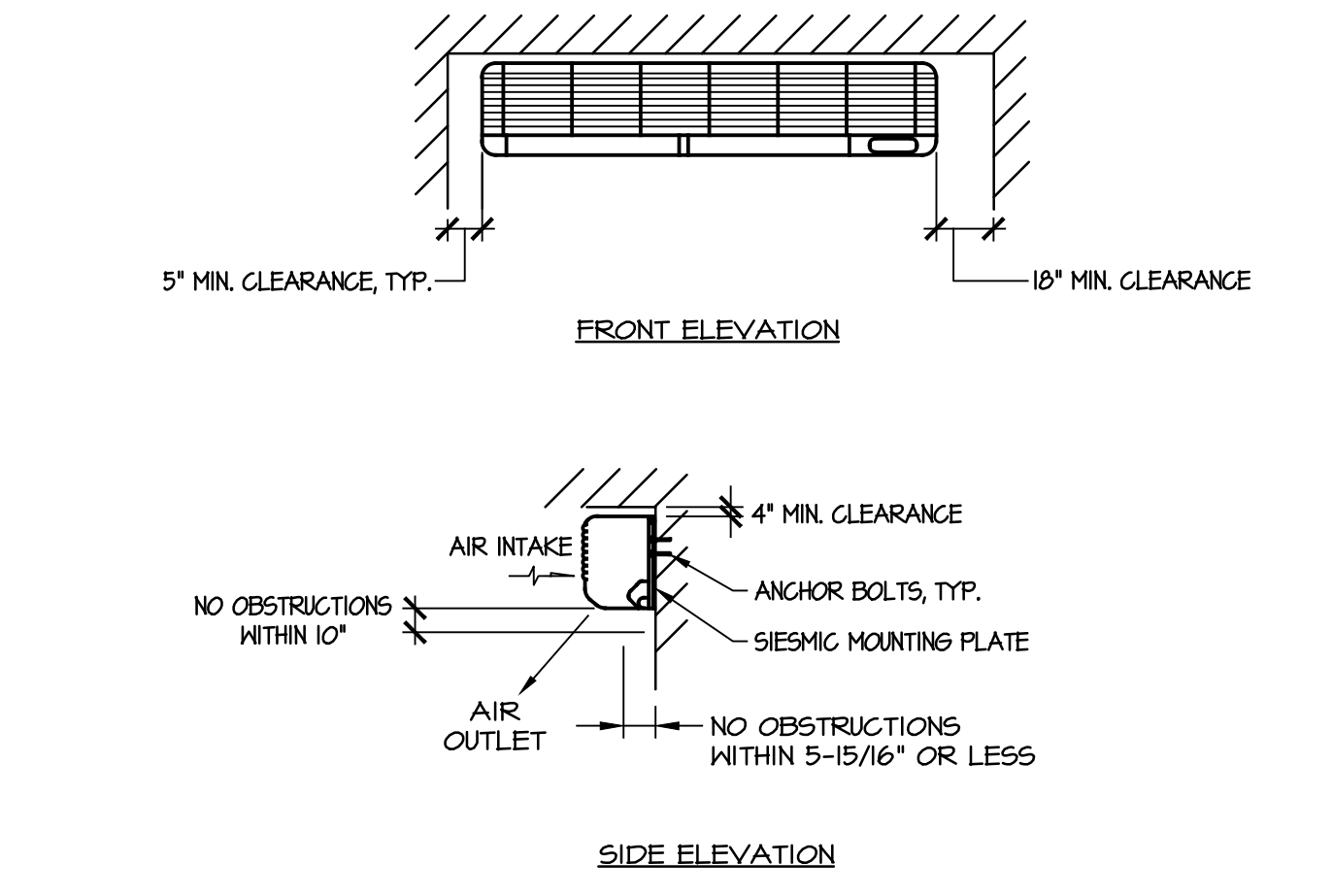
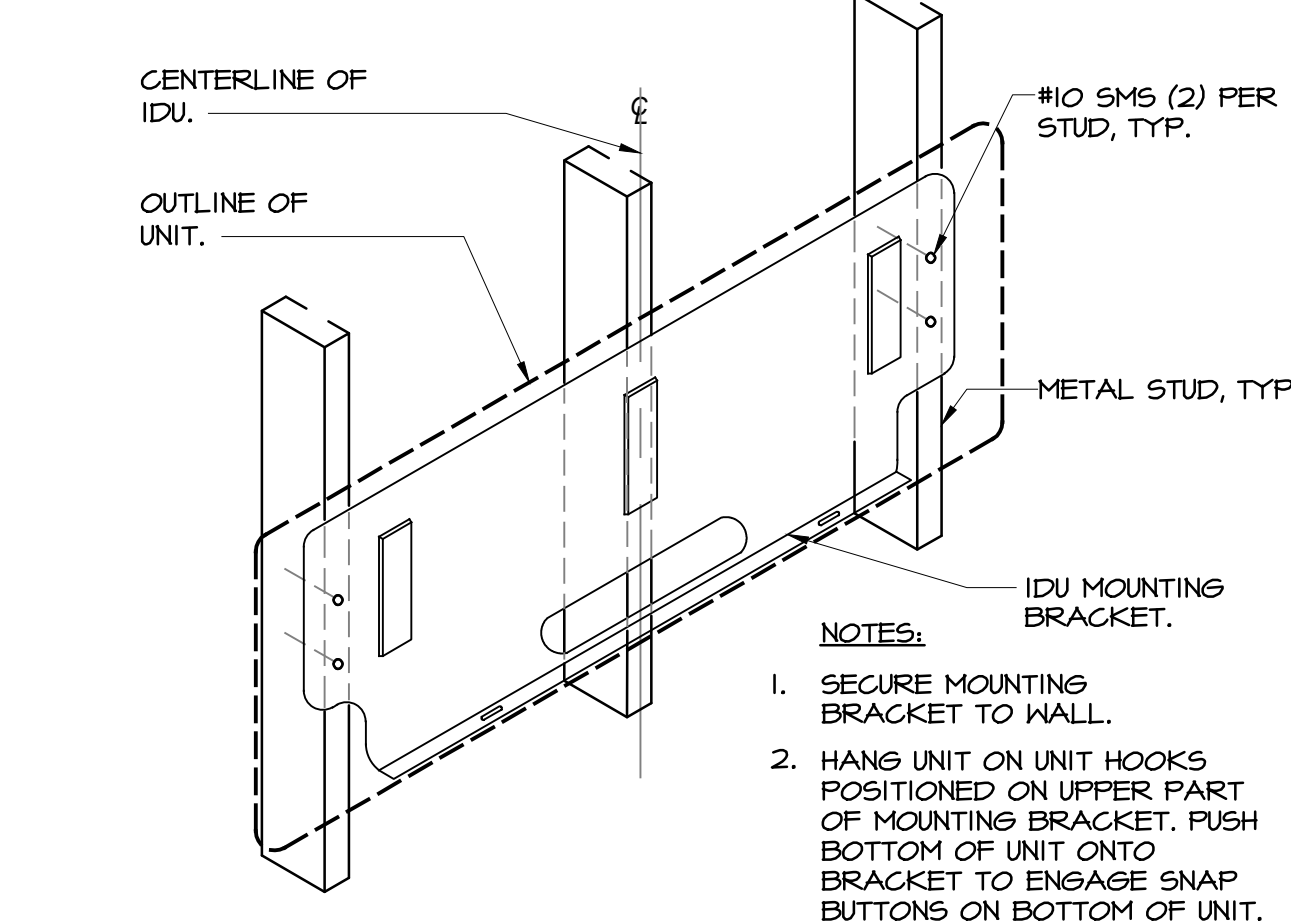
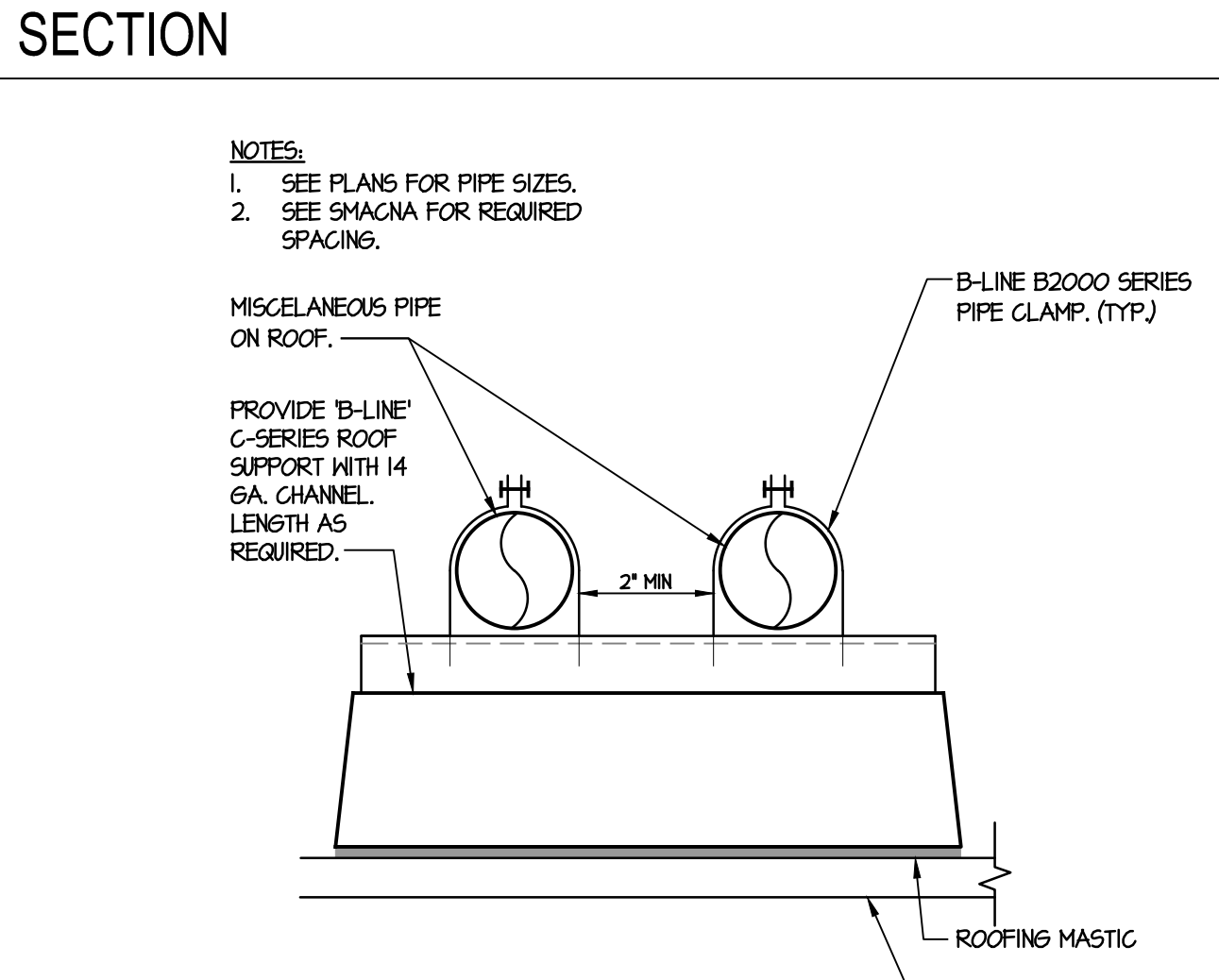
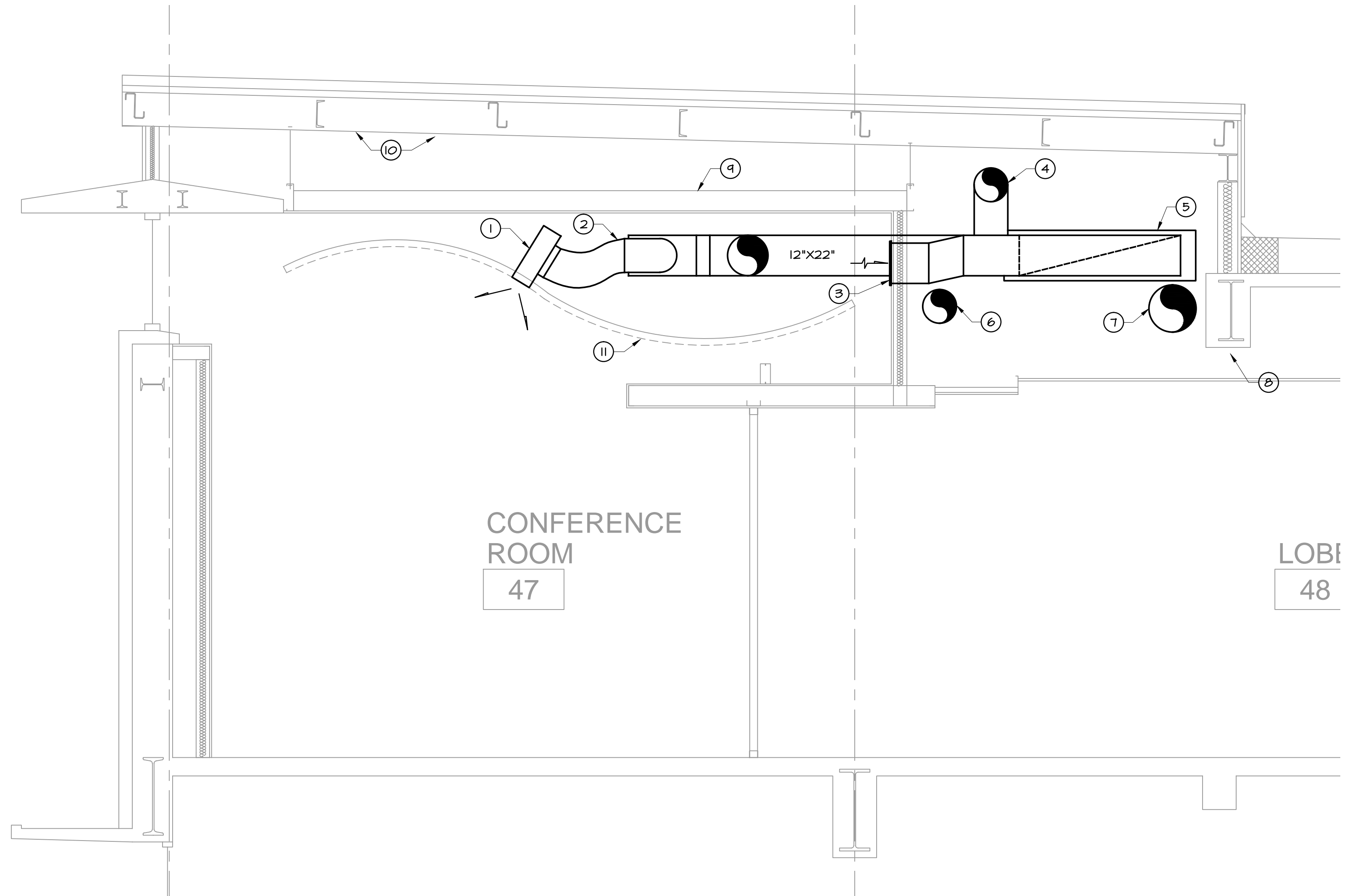
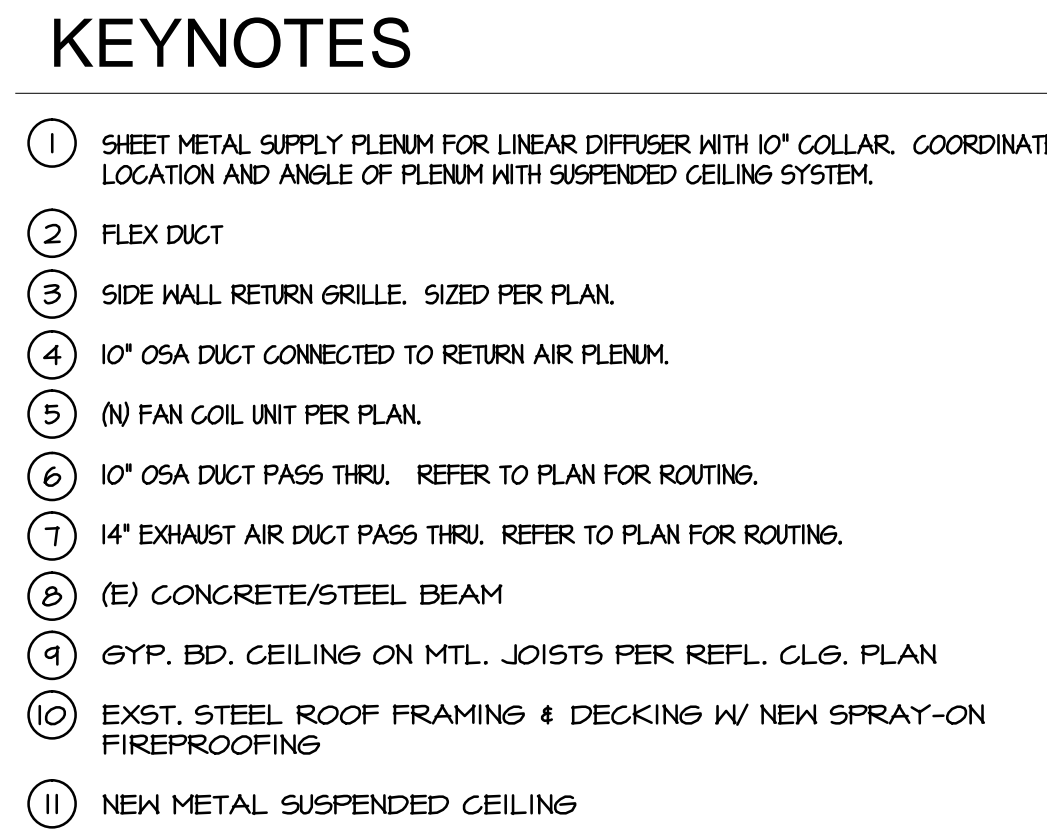
OUTDOOR UNIT ON EQUIPMENT PLATFORM



EQUIPMENT PLATFORM



FLEXIBLE AIR DUCT CONNECTOR



SEQUENCE OF OPERATIONS

- REF. SYSTEM (WITH ERV INTERLOCK):**
1. OCCUPIED/UNOCCUPIED COMFORT MODE SHALL BE ISSUED FROM FRONT-END SUPERVISORY CONTROLLER. SCHEDULES AND MANUAL COMMANDS, LOCAL OCCUPIED/OVERRIDE COMMANDS SHALL BE FROM LOCAL THERMOSTATS AND SHALL OVERRIDE UNOCCUPIED MODE FOR 1 HOUR.
 2. OCCUPIED MODE - ENERGY RECOVERY VENTILATORS SHALL REMAIN IN OPERATION AT ALL TIMES WHEN SPACE IS OCCUPIED TO MEET VENTILATION NEEDS. FAN SHALL ENERGIZE, CURRENT SENSING SWITCH SHALL TRIP FAN AND ALLOW FAN TO RESTART VENTILATION FUNCTION TO OPERATE. IF CURRENT SENSOR DOES NOT PROVE FAN WITHIN 60 SECONDS, THE SYSTEM SHALL ALARM "FAN FAILURE" TO FRONT END SYSTEM.
 3. COOLING MODE - DURING OCCUPIED MODE IF TEMPERATURE RISES ABOVE THE OCCUPIED SETPOINT, THE COOLING SHALL ENERGIZE AS NEEDED TO SATISFY CONDITION. ROOM THERMOSTAT LEVER IS CAPABLE OF RAISING OR LOWERING THE OCCUPIED SETPOINT (ADJ.) + OR - 5 DEGREES. IF COOLING HAS BEEN COMMANDED ON AND DISCHARGE AIR DOES NOT RISE BY 6 DEGREES (ADJ.) FIVE MINUTES (ADJ.) A "COOLING ALARM" MESSAGE SHALL BE SENT TO THE SUPERVISORY CONTROLLER.
 4. HEATING MODE - DURING OCCUPIED MODE IF ROOM TEMPERATURE DROPS BELOW OCCUPIED SETPOINT, THE HEATING SHALL ENERGIZE AS NEEDED TO SATISFY CONDITION. ROOM THERMOSTAT LEVER IS CAPABLE OF RAISING OR LOWERING THE OCCUPIED SETPOINT (ADJ.) + OR - 5 DEGREES. IF HEATING HAS BEEN COMMANDED ON AND DISCHARGE AIR DOES NOT RISE BY 6 DEGREES (ADJ.) FIVE MINUTES (ADJ.) A "HEATING ALARM" MESSAGE SHALL BE SENT TO THE SUPERVISORY CONTROLLER.
 5. UNOCCUPIED MODE - FAN, HEATING AND COOLING SHALL BE OFF. IF ROOM TEMPERATURE RISES ABOVE UNOCCUPIED COOLING SETPOINT (ADJ.) FAN SHALL ENERGIZE. AFTER PROVING FAN, THE COOLING SHALL ENERGIZE UNTIL UNOCCUPIED COOLING SETPOINT (ADJ.) + OR - 5 DEGREE. IF ROOM TEMPERATURE DROPS BELOW UNOCCUPIED HEATING SETPOINT (ADJ.) FAN SHALL ENERGIZE. UPON PROVING FAN THE HEATING SHALL ENERGIZE UNTIL UNOCCUPIED SETPOINT IS SATISFIED. FAN SHALL DE-ENERGIZE.
- REF. SYSTEM (FOR IDU 21 AND IDU 2.2)**
1. IDU 21 AND IDU 2.2 SHALL NOT BE INTERLOCKED WITH ERV AND SHALL BE CAPABLE OF INDEPENDENT OPERATION IN UNOCCUPIED MODE.
 2. THESE UNIT SHALL ALWAYS BE LIVE BASED ON TEMPERATURE SET POINTS WITHOUT USE OF AN OCCUPANCY SENSOR OR COMMAND FROM FRONT END. UPON ACTIVATION THE SUPPLY FAN SHALL ENERGIZE AND PROVE. UPON PROVING THE FAN, FLOWING MODES OF OPERATION WILL HAPPEN.
- 3. MODES OF OPERATION**
1. **COOLING MODE:** IF SPACE TEMPERATURE IS GREATER THAN THERMOSTAT SETPOINT THE VALVE SHALL MODULATE OPEN AS NEEDED TO SATISFY CONDITION.
 2. **HEATING MODE:** IF SPACE TEMPERATURE IS LESS THAN THERMOSTAT SETPOINT THE VALVE SHALL MODULATE OPEN AS NEEDED TO SATISFY CONDITION.

CONTROLS NOTES, SEQUENCE OF OPERATION

[illegible]

PERFORMANCE CERTIFICATE OF COMPLIANCE						(Part 3 of 3)		PERF-1	
Project Name VA Hospital 7th Floor Renovation						Site 3/17/2014			
ZONE INFORMATION									
System Name	Zone Name	Occupancy Type	Floor Area (sq ft)	Int. Cooling (Watt)	Int. Heating (Watt)	Allowed LPD (Watt/sq ft)	Actual LPD (Watt/sq ft)	Prose- Load	Prose- Load
	0204.4	Overseer/Conference-Rm	165	1,400					
	0204.4	Office > 250 sqft	120	1,100					
	0207.2	Office > 250 sqft	120	1,100					
	0207.3	Office > 250 sqft	265	1,100					
	0207.4	Computer/NetworkSupport	550	5,000					
	0208.1	Computer/NetworkSupport	260	2,000					
	0208.2	Office > 250 sqft	150	1,100					
	0208.2	Office > 250 sqft	1,271	9,000					
	0209.1	Office > 250 sqft	150	1,100					
	0209.2	Office > 250 sqft	150	1,100					
	0209.2	Office > 250 sqft	246	1,100					
	0210.1	Computer/NetworkSupport	757	7,400					
	0210.2	Office > 250 sqft	300	1,100					
	0210.3	Office > 250 sqft	120	1,100					
<p>Notes: 1. See 150.10.2 2. See 150.10.2.1 3. See 150.10.2.2 4. See 150.10.2.4 5. See 150.10.2.5 6. See 150.10.2.6 7. See 150.10.2.7 8. See 150.10.2.8 9. See 150.10.2.9 10. See 150.10.2.10 11. See 150.10.2.11 12. See 150.10.2.12 13. See 150.10.2.13 14. See 150.10.2.14 15. See 150.10.2.15 16. See 150.10.2.16 17. See 150.10.2.17 18. See 150.10.2.18 19. See 150.10.2.19 20. See 150.10.2.20 21. See 150.10.2.21 22. See 150.10.2.22 23. See 150.10.2.23 24. See 150.10.2.24 25. See 150.10.2.25 26. See 150.10.2.26 27. See 150.10.2.27 28. See 150.10.2.28 29. See 150.10.2.29 30. See 150.10.2.30 31. See 150.10.2.31 32. See 150.10.2.32 33. See 150.10.2.33 34. See 150.10.2.34 35. See 150.10.2.35 36. See 150.10.2.36 37. See 150.10.2.37 38. See 150.10.2.38 39. See 150.10.2.39 40. See 150.10.2.40 41. See 150.10.2.41 42. See 150.10.2.42 43. See 150.10.2.43 44. See 150.10.2.44 45. See 150.10.2.45 46. See 150.10.2.46 47. See 150.10.2.47 48. See 150.10.2.48 49. See 150.10.2.49 50. See 150.10.2.50 51. See 150.10.2.51 52. See 150.10.2.52 53. See 150.10.2.53 54. See 150.10.2.54 55. See 150.10.2.55 56. See 150.10.2.56 57. See 150.10.2.57 58. See 150.10.2.58 59. See 150.10.2.59 60. See 150.10.2.60 61. See 150.10.2.61 62. See 150.10.2.62 63. See 150.10.2.63 64. See 150.10.2.64 65. See 150.10.2.65 66. See 150.10.2.66 67. See 150.10.2.67 68. See 150.10.2.68 69. See 150.10.2.69 70. See 150.10.2.70 71. See 150.10.2.71 72. See 150.10.2.72 73. See 150.10.2.73 74. See 150.10.2.74 75. See 150.10.2.75 76. See 150.10.2.76 77. See 150.10.2.77 78. See 150.10.2.78 79. See 150.10.2.79 80. See 150.10.2.80 81. See 150.10.2.81 82. See 150.10.2.82 83. See 150.10.2.83 84. See 150.10.2.84 85. See 150.10.2.85 86. See 150.10.2.86 87. See 150.10.2.87 88. See 150.10.2.88 89. See 150.10.2.89 90. See 150.10.2.90 91. See 150.10.2.91 92. See 150.10.2.92 93. See 150.10.2.93 94. See 150.10.2.94 95. See 150.10.2.95 96. See 150.10.2.96 97. See 150.10.2.97 98. See 150.10.2.98 99. See 150.10.2.99 100. See 150.10.2.100</p>									
<p>EXCEPTIONAL CONDITION COMPLIANCE CHECKLIST</p> <p>The local enforcement agency may give special attention to the items specified in this checklist. These items require specific written justification and documentation, and special verification is to be used with the performance application. The local enforcement agency may require a building or design that otherwise complies based on the adequacy of the special justifications and documentation submitted.</p>									
<p>The exceptional features listed in this performance application have specifically been reviewed. Adequate written justification and documentation for each item has been provided by the applicant.</p>									
<p>Authorized Signatory or Stamp</p>									
<p>Engine/Arch/PE or Equivalent User Number: 4886 Application: 2014-03-17-03-39 PE: 0118</p>									

[illegible][illegible]

